

## Source Property Information

CLOSURE DATE: 08/28/2014

**BRRTS #:** 02-72-195035  
**ACTIVITY NAME:** Nekoosa Papers Sulfuric Acid Spill  
**PROPERTY ADDRESS:** 301 Point Basse AVE  
**MUNICIPALITY:** Nekoosa  
**PARCEL ID #:** 3000150

**FID #:** 772052930  
**DATCP #:**  
**PECFA#:**

**\*WTM COORDINATES:**

X: 528458 Y: 426771

*\* Coordinates are in  
WTM83, NAD83 (1991)*

**WTM COORDINATES REPRESENT:**

- Approximate Center Of Contaminant Source  
 Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

### CONTINUING OBLIGATIONS

#### Contaminated Media for Residual Contamination:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> <u>Groundwater</u> Contamination > ES (236)<br><input type="checkbox"/> Contamination in ROW<br><input type="checkbox"/> Off-Source Contamination<br><i>(note: for list of off-source properties<br/>see "Impacted Off-Source Property Information,<br/>Form 4400-246")</i> | <input checked="" type="checkbox"/> <u>Soil</u> Contamination > *RCL or **SSRCL (232)<br><input type="checkbox"/> Contamination in ROW<br><input type="checkbox"/> Off-Source Contamination<br><i>(note: for list of off-source properties<br/>see "Impacted Off-Source Property Information,<br/>Form 4400-246")</i> |
|---|---|

#### Site Specific Obligations:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Soil: maintain industrial zoning (220)<br><i>(note: soil contamination concentrations<br/>between non-industrial and industrial levels)</i> | <input checked="" type="checkbox"/> Cover or Barrier (222)<br><input checked="" type="checkbox"/> Direct Contact<br><input checked="" type="checkbox"/> Soil to GW Pathway              |
| <input checked="" type="checkbox"/> Structural Impediment (224)   | <input type="checkbox"/> Vapor Mitigation (226)   |
| <input type="checkbox"/> Site Specific Condition (228)  | <input type="checkbox"/> Maintain Liability Exemption (230)<br><i>(note: local government unit or economic<br/>development corporation was directed to<br/>take a response action )</i> |

#### Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? (234)

- Yes  No  N/A

\* Residual Contaminant Level  
\*\* Site Specific Residual Contaminant Level



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott Walker, Governor  
Cathy Stepp, Secretary  
Dan Baumann, Regional Director

Wisconsin Rapids Service Center  
473 Griffith Avenue  
Wisconsin Rapids, Wisconsin 54494  
Telephone 715-421-7800  
FAX 715-421-7830

August 28, 2014

BRRTS #02-72-195035

Mr. Mark Bessette  
Domtar A.W. LLC.  
301 Point Basse Avenue  
Nekoosa, WI 54457

### KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

Subject: Final Case Closure with Continuing Obligations  
Nekoosa Papers Sulfuric Acid Spill  
Domtar Papers, Nekoosa, Wisconsin

Dear Mr. Bessette:

The Department of Natural Resources (DNR) considers Nekoosa Papers Sulfuric Acid Spill closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under chs. NR 726 and 727, Wis. Adm. Code. The DNR West Central Region Closure Committee reviewed the request for closure on December 19, 2013. The Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. A conditional closure letter was issued by the DNR on December 23, 2013, and documentation that the conditions in that letter were met was received on June 16, 2014.

Approximately 280 gallons of sulfuric acid was released to the environment occurred due to a failure of an aboveground sulfuric acid pipeline between the Chemical Pump House (a.k.a. Old ClO<sub>2</sub> Plant Building) and Methanol Tank at the Domtar Nekoosa facility (see Property Site Diagram, Figure B.1.a.1). The acid was neutralized and the accessible impacted soil was excavated to approximately four feet below grade. However, due to concerns about nearby building foundations and buried utilities not all of the impacted soil could be removed, nor could the extent of the impacted groundwater be determined. The conditions of closure and continuing obligations required were based on the property being used for industrial purposes.

### Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement and buildings must be maintained over contaminated soil and the DNR must approve any changes to this barrier.
- If a structural impediment that obstructed a complete site investigation or cleanup is removed or modified, additional environmental work must be completed.

The DNR fact sheet, "Continuing Obligations for Environmental Protection", RR-819, helps to explain a property owner's responsibility for continuing obligations on their property. The fact sheet may be obtained at <http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf>.

### GIS Registry

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web) at <http://dnr.wi.gov/topic/Brownfields/clean.html>, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, under the Geographic Information System (GIS) Registry layer, at the same web address.

DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf>.

All site information is also on file at the Wisconsin Rapids DNR Service Center, at 473 Griffith Avenue, Wisconsin Rapids, Wisconsin. This letter and information that was submitted with your closure request application, including any maintenance plan and maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

### Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where pavement and building foundations are required, as shown on the map, Post-Remedial Soil Contamination, Figure D.1.b, in the attached Maintenance Plan, unless prior written approval has been obtained from the DNR:

- removal of the existing barrier or cover;
- replacement with another barrier or cover;
- excavating or grading of the land surface;
- filling on covered or paved areas;

- plowing for agricultural cultivation;
- construction or placement of a building or other structure;
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

#### Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter and the attached maintenance plan **are** met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources  
Attn: Remediation and Redevelopment Program Environmental Program Associate  
1300 West Clairemont Avenue  
Eau Claire, WI 54701

#### Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)

Groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the map, Groundwater Isoconcentration, Figure D.1.a, in the attached Maintenance Plan. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

#### Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)

Known soil contamination remains at remedial excavation soil sample locations 7, 8, 10, 11, 15, 18, 21 and 23 as indicated on the map, Post-Remedial Soil Contamination, Figure D.1.b, in the attached Maintenance Plan. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Cover or Barrier (s. 292.12 (2) (a), Wis. Stats., s. NR 726.15, s. NR 727.07 Wis. Adm. Code)

The Chemical Pump House (a.k.a. Old ClO<sub>2</sub> Plant Building) and Methanol Tank at the Domtar Nekoosa facility, as well as the pavement between and to the north of these two structures, that exists in the specific location shown on the map, Post-Remedial Soil Contamination, Figure D.1.b, in the attached Maintenance Plan shall be maintained in compliance with the **attached maintenance plan** in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

In this case, the buildings and buried utilities on the north side of these structures are also considered a structural impediment, and additional investigation and response requirements apply as described in the section titled Structural Impediments.

A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if the use of the property were to change such that a residential exposure would apply. This may include, but is not limited to single or multiple family residences, a school, day care, senior center, hospital or similar settings. In addition, a cover or barrier for multi-family residential housing use may not be appropriate for use at a single family residence.

The cover approved for this closure was designed to be protective for a commercial or industrial use setting. Before using the property for residential purposes, you must notify the DNR at least 45 days before taking an action, to determine if additional response actions are warranted.

A request may be made to modify or replace a cover or barrier. The replacement or modified cover or barrier must be protective of the revised use of the property, and must be approved in writing by the DNR prior to implementation.

The **attached maintenance plan and inspection log (DNR form 4400-305)** are to be kept up-to-date and on-site. Inspections shall be conducted annually, in accordance with the attached maintenance plan. Submit the inspection log to the DNR only upon request.

Structural Impediments (s. 292.12 (2) (b), Wis. Stats., s. NR 726.15, s. NR 727.07, Wis. Adm. Code)

The remaining Chemical Pump House (a.k.a. Old ClO<sub>2</sub> Plant Building), Methanol Tank and buried utilities on the north side of these structures at the Domtar Nekoosa facility as shown on the map, Post-Remedial Soil Contamination, Figure D.1.b, in the attached Maintenance Plan, made complete investigation and/or remediation of the soil and groundwater contamination on this property impracticable. If the structural impediment is to be removed, the property owner shall notify the DNR at least 45 days before removal, and conduct an investigation of the degree and extent of sulfuric acid contamination below and near the structural impediments. If contamination is found at that time, the contamination shall be properly remediated in accordance with applicable statutes and rules.

General Wastewater Permits for Construction Related Dewatering Activities

The DNR's Water Quality Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits, or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>. If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If water collecting in a pit/trench that requires dewatering is expected to be free of pollutants other than suspended solids and oil and grease, a general permit for Pit/Trench Dewatering may be needed.

In Closing

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under s. 292.15, Wis. Stats, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Tom Hvizdak at (715) 421-7850, or at [tom.hvizdak@wisconsin.gov](mailto:tom.hvizdak@wisconsin.gov).

Sincerely,



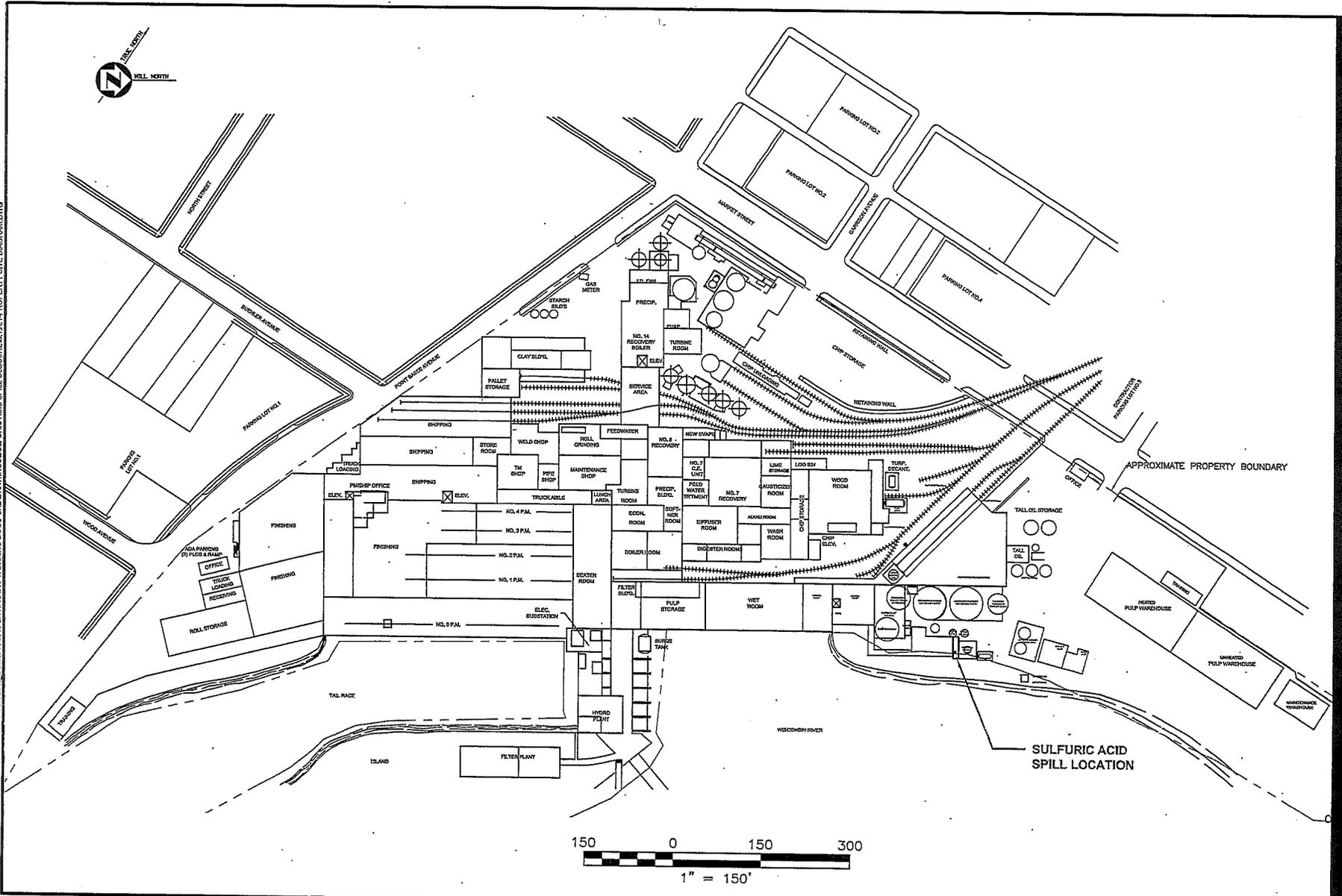
Connie Antonuk, Team Supervisor  
West Central Region Remediation & Redevelopment Program

Attachments:

- Property Site Diagram, Nekoosa Papers Sulfuric Acid Spill, Figure B.1.a.1
- Barrier Maintenance Plan

c: Andrew Mott, AECOM, 558 N. Main St., Oshkosh, WI 54901

Project Management: Brian B. ...  
 Design: ...  
 Checked: ...  
 Approved: ...  
 ANSI B 11" x 17"



**AECOM**  
**PROPERTY SITE DIAGRAM**  
 Nekoosa Papers Sulfuric Acid Spill  
 BRRTS No. 02-72-195035  
 Domtar, Nekoosa, Wisconsin  
 Project No.: 60302620 2013-09-12  
**FIGURE B.1.a.1**

## D.2 – Brief Descriptions

### BARRIER MAINTENANCE PLAN

10/15/2013

Property Located at:

301 Point Basse Avenue, Nekoosa, Wisconsin 54457

WDNR BRRTS/Activity # 02-72-195035

LEGAL DESCRIPTION: CITY OF NEKOOSA S10 T21 R5E PRT GO LOTS 5, 6 & SE NW LYG ELY OF PT BASSE AVE & S OF SLN OF ALLEY 'BLKS 3, 4, 5 & 6 PLAT OF NEK' & SW OF HWY; E 6' OF PT BASSE, AND LOTS 1 THRU 8, BLK 3, LOTS 1 THRU 8, BLK 4, LOTS 1 THRU 8, BLK 5, LOTS 4 THRU 8, BLK 6 & VAC STREETS & ALLEY, EXC THAT PRT LYG SLY & ELY OF FERC LINE

#### Introduction

This document is the Maintenance Plan for a barrier at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing barrier occupying the area over the contaminated groundwater plume or soil on-site.

More site-specific information about this property may be found in:

- The case file in the DNR West Central regional office
- BRRTS on the Web (DNR's internet based data base of contaminated sites):  
[dnr.wi.gov/botw/SetUpBasicSearchForm.do](http://dnr.wi.gov/botw/SetUpBasicSearchForm.do)
- GIS Registry PDF file for further information on the nature and extent of contamination:  
[dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2](http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2); and
- The DNR project manager for Wood County.

#### Description of Contamination

Soil contaminated by sulfuric acid is located at a depth of 4 inches to 4 feet at the Domtar Nekoosa Mill in Nekoosa, Wisconsin. Groundwater contaminated by sulfate is located at a depth of approximately 6 to 8 feet below ground near the spill site. The extent of the soil and groundwater contamination is shown on the attached Figures B.3.b and B.2.b.

The Barrier consists of asphalt pavement, concrete slab, and curbing system to direct surface water to the Mill's waste water treatment facility. The barrier is located over the spill area on the property as shown on the attached Figures B.3.b and B.2.b.

#### Cover Slab Barrier Purpose

The barrier over the contaminated groundwater plume and soil serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. This barrier also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

### D.3 – Description of Maintenance Action(s)

#### Annual Inspection

The cap overlying the contaminated groundwater plume and soil, as depicted in Figures B.3.b and B.2.b, will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause infiltration into, or exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed and where infiltration from the surface will not be effectively minimized will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit B, Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request.

#### Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment ("PPE"). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the cap overlying the contaminated groundwater plume and soil is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

The property owner, in order to maintain the integrity of the cap, will maintain a copy of this Maintenance Plan on-site and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

#### Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover or Cap

The following activities are prohibited on any portion of the property where pavement or other barrier is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

#### Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of WDNR.



**D.5 - Contact Information**

October, 2013

Site Owner and Operator: Mark Bessette, Domtar  
301 Point Basse Avenue, Nekoosa, Wisconsin 54457  
715-866-7358

Signature:

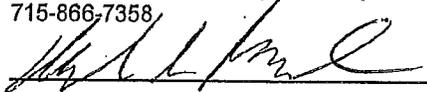


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(DNR may request signature of affected property owners, on a case-by-case basis)

Property Owner: Mark Bessette, Domtar  
301 Point Basse Avenue, Nekoosa, Wisconsin 54457  
715-866-7358

Signature:



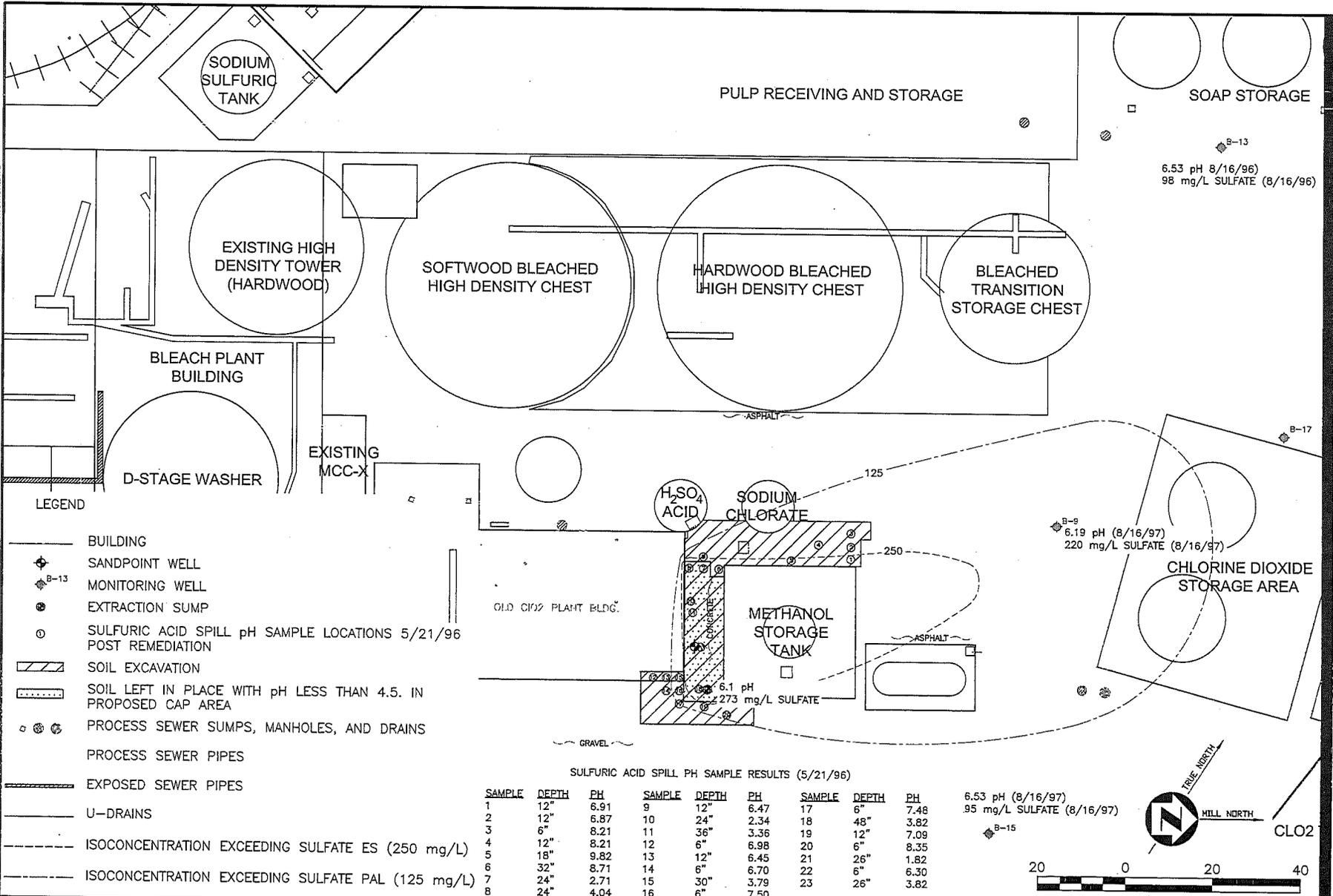
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Consultant: Andrew Mott  
558 North Main Street, Oshkosh, Wisconsin 54901  
920-236-6713

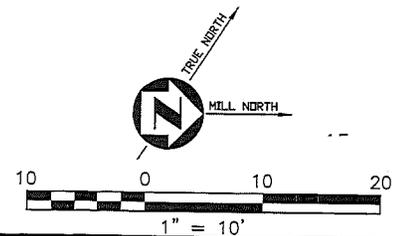
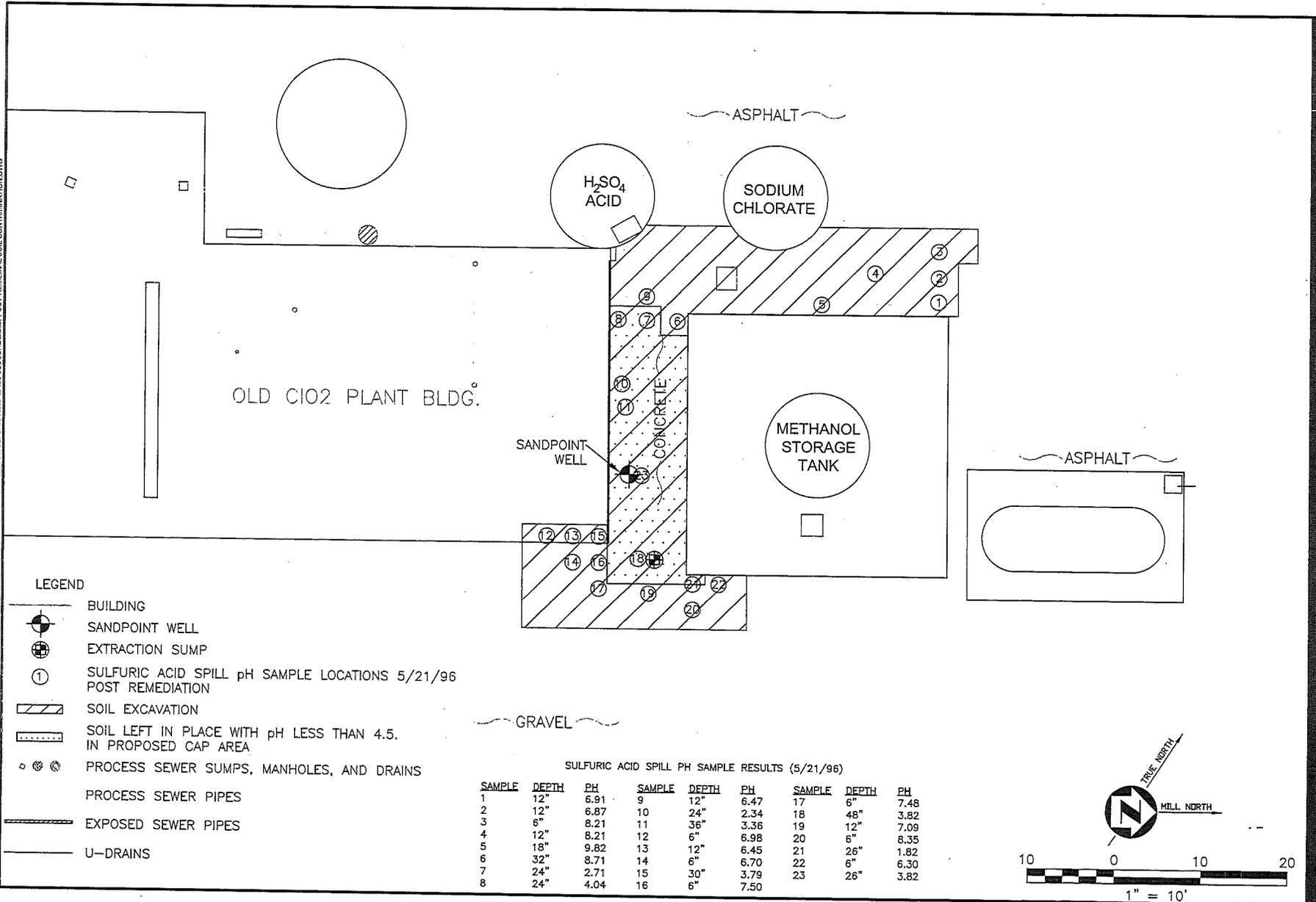
WDNR: Tom Hvizdak  
473 Griffith Avenue, Wisconsin Rapids, Wisconsin 54494  
715-421-7850

ANSI B 11" X 17"

Approved: ---  
 Project Management: [Signature]  
 Design: [Signature]  
 Checked: [Signature]  
 Date: 8/15/2013  
 File Name: W:\GIS\HFP\0111\PROJECTS\PROJECTS\PROJ\0256562020.DWG  
 DONTAS 2013 8/15/2013 14:42  
 Not to be used for any other purpose without written permission of AECOM



**AECOM**  
**FIGURE D.1.a.**  
**GROUNDWATER ISOCONCENTRATION**  
**AUGUST 15, 2013**  
**Nekoosa Papers Sulfuric Acid Spill**  
**BRTS No. 02-72-195035**  
**Domtar, Nekoosa, Wisconsin**  
**Project No.: 60302620 2013-09-12**





## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott Walker, Governor  
Cathy Stepp, Secretary  
Dan Baumann, Regional Director

Wisconsin Rapids Service Center  
473 Griffith Avenue  
Wisconsin Rapids, Wisconsin 54494  
Telephone 715-421-7800  
FAX 715-421-7830

December 23, 2013

BRRTS #02-72-195035

Mr. Mark Bessette  
Domtar A.W. LLC..  
301 Point Basse Avenue  
Nekoosa, WI 54457

Subject: Conditional Closure Decision With Requirements to Achieve Final Closure  
Nekoosa Papers Sulfuric Acid Spill  
Domtar Papers, Nekoosa, Wisconsin

Dear Mr. Bessette:

On December 19, 2013, the Department of Natural Resources (DNR) West Central Region Closure Committee reviewed your request for closure of the case described above. The West Central Region Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the West Central Region Closure Committee has determined that the contamination from the sulfuric acid release on the site from the leaking sulfuric acid pipe appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with ch. NR 726, Wis. Adm. Code and will be closed if the following conditions are satisfied.

### **MONITORING WELL ABANDONMENT**

The monitoring wells at the site must be properly abandoned in accordance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me on Form 3300-005, found at <http://dnr.wi.gov/topic/groundwater/forms.html>.

### **PURGE WATER, WASTE AND SOIL PILE REMOVAL**

Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with the applicable rules. Once that work is completed, please send appropriate documentation regarding the treatment or disposal of the remaining purge water, waste and/or soil piles.

When the above conditions have been satisfied, please submit the appropriate documentation (for example, well abandonment forms, disposal receipts, copies of correspondence, etc.) to verify that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR's Remediation and Redevelopment GIS Registry. Information that was submitted with your closure request application will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web). The site may be viewed on the Remediation and Redevelopment Sites Map (RRSM), on the GIS Registry layer. To review the site on BRRTS on the Web, or to view the GIS Registry web page, see <http://dnr.wi.gov/topic/Brownfields/rrsm.html>.

### CONTINUING OBLIGATIONS

As part of the approval of the closure of this case, you will be responsible for maintaining the following continuing obligations:

- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement and/or structures must be maintained over contaminated soil and the DNR must approve any changes to this barrier.
- If a structural impediment that obstructed a complete site investigation or cleanup is removed or modified, additional environmental work must be completed.

In the final closure approval, you will also be required to conduct annual inspections. Documentation of the inspection will be required to be kept on site.

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- Additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.
- The property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under s. 292.15, Wis. Stats.
- Property owner fails to maintain or comply with a continuing obligation (imposed under the final closure approval letter).

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (715) 421-7850, or by email at [tom.hvizdak@wi.gov](mailto:tom.hvizdak@wi.gov).

Sincerely,



Tom Hvizdak  
Hydrogeologist

c: Andrew Mott, AECOM, 558 N. Main ST., Oshkosh, WI 54901

**SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN**

**Notice:** Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided. Any section of the form not relevant to the case closure request must be fully filled out or explained on a separate page and attached to the relevant section of this form. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

**Site Information**

BRRTS No. 02-72-195035	Parcel ID No. 3000150		
BRRTS Activity (Site) Name Nekoosa Papers Sulfuric Acid Spill	WTM Coordinates		
Street Address 301 Point Basse Ave	X 528458	Y 426771	
Responsible Party (RP) Name Mark Bessette	City Nekoosa	State WI	ZIP Code 54457
Company Name Domtar A.W. LLC			
Street Address 301 Point Basse Ave	City Nekoosa	State WI	ZIP Code 54457
Phone Number (715) 886-7358	Email mark.bessette@domtar.com		

Check here if the RP is the owner of the source property.

Environmental Consultant Name Andrew Mott	Consulting Firm AECOM Technology Services, Inc. (AECOM)		
Street Address 558 North Main Street	City Oshkosh	State WI	ZIP Code 54901
Phone Number (920) 236-6713	Email Andrew.Mott@aecom.com		
Acres Ready For Use 0.5	Voluntary Party Liability Exemption Site? <input type="radio"/> Yes <input checked="" type="radio"/> No		

**Fees and Mailing of Closure Request**

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

1. **Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR regional Environmental Program Associate at <http://dnr.wi.gov/topic/Brownfields/Contact.html>. Check all fees that apply:

\$750 Closure Fee

\$200 GIS Registry Fee for Soil

\$250 GIS Registry Fee for Groundwater Lost Well(s)

Total Amount of Payment \$ \$1,200.00

2. **Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as unbound, separate documents in the order and with the titles prescribed by this form. For electronic document submittal requirements, see <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

## Site Summary

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

### 1. General Site Information and Site History

- A. **Site Location:** Describe the physical location of the site, both generally and specific to its immediate surroundings.  
The mill property occupies approximately 25.9 acres and is located along the northwest side of the Wisconsin River in the City of Nekoosa, Wood County, Wisconsin. The property is located in an industrial/commercial area. The property is mainly comprised of Mill buildings, railroad tracks, and asphalt out lots. The site is generally bordered on the west by residential properties, to the north by manufacturing and commercial properties, and to the east and south by the Wisconsin River.
- B. **Prior and current site usage:** Specifically describe the current and historic occupancy and types of use.  
The site has and is currently being used as a paper mill.
- C. Describe how and when site contamination was discovered.  
On May 21, 1996, an above ground leaking sulfuric acid pipe was discovered near the chemical pump house in which acid was observed to have pooled between the chemical pump house and the methanol tank containment area. The acid leak occurred due to a failure of socketed weld fittings at an elbow of the pipe.
- D. Describe the type(s) and source(s) or suspected source(s) of contamination.  
It was estimated that a total of 280 gallons of sulfuric acid was released. Sodium carbonate was then used on the acid pool to neutralize the acid.
- E. Other relevant site description information (or enter Not Applicable).  
Once the acid was neutralized, the area was excavated from approximately 4 inches below ground surface (bgs) to 4 feet bgs, the depth at which the background soil pH of 6.8 was reached. A total of 21 cubic yards of material was removed. There was no free liquid associated with this soil. The excavated area was amended with approximately 200 pounds of lime to help neutralize any remaining acid. Some of the impacted soil (low pH) was left in place due to concerns about the building foundations. The area was filled with clean soil and has been covered with a concrete slab and curb system that directs surface water flow to the Mill's waste water treatment plant.
- F. List BRRTS activity site name and number for all other BRRTS activities at this property, including closed cases.  
Nekoosa Papers Sulfuric Acid Spill - BRRTS No. 0272195035 (Open)  
Nekoosa Papers New Chemical Storage Area - BRRTS No. 0272195034 (Closed)  
Nekoosa Papers Evaporator Sewer Failure - BRRTS No. 0272195029 (Open)  
Nekoosa Papers Nekoosa Mill - BRRTS No. 0272000464 (Closed)  
Nekoosa Papers - BRRTS No. 0372000254 (Closed)  
Nekoosa Papers New Pulp Storage Tnk Area - BRRTS No. 0272195036 (Open)  
Nekoosa Papers Train Shed Reconstr Area - BRRTS No. 0272195027 (Open)  
Nekoosa Papers Collapsed Sewer Wood Rm - BRRTS No. 0272195031 (Open)  
Nekoosa Woodyard - BRRTS No. 0372001077 (Closed)  
Nekoosa Papers New Alkali Plt Weak Wash - BRRTS No. 772052930 (Open)
- G. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to this site, and those impacted by contamination from this site.  
No adjacent properties have been impacted by this site. Properties immediately adjacent to this site with BRRTS activities are as follows:  
Resheske Inc - BRRTS No. 0372000048 (Adjacent to site)  
Nekoosa Phillips - BRRTS No. 0372099210 (Adjacent to site)  
Effluent Treatment Plt - BRRTS No. 0372000901 (Adjacent to site)
- H. **Current zoning** (e.g. industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).  
According to the Wood County Land Records Interactive Map, version 2.3.1, the site is zoned for manufacturing and the neighboring properties are zoned as manufacturing, mercantile, and residential.

### 2. General Site Conditions

- A. Soil/Geology
- i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.  
Underlying the Mill site is glacial outwash sand comprised of the Plainfield Series to a depth of at least 20 feet below ground surface (bgs). The glacial drift is underlain by Cambrian age sandstone and Precambrian age granite and gneiss.
  - ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.  
Fill or waste deposits are not known on the site.

- iii. Depth to bedrock, bedrock type, and whether or not it was encountered during the investigation. Bedrock was not encountered during the investigation. Deeper borings advanced on the property indicate bedrock is greater than 20 feet deep.
- iv. Describe the nature and locations of current surface cover(s) across the site (e.g. natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).  
The property is mainly comprised of impervious surfaces (Mill buildings, railroad tracks, and paved out lots). Where impacted soils have been left in place, a concrete slab and curb system has been constructed. Gravel and vegetated areas are present on site generally along the Wisconsin River.

#### B. Groundwater

- i. **Discuss depth to groundwater and piezometric elevations.** Describe and explain depth variations, and whether free product affects measurement or water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.  
Based on previous work performed on the site, groundwater has been measured in monitoring wells and is generally six to eight feet below ground surface.
- ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.  
Groundwater generally flows away from the Wisconsin River.
- iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.  
Based on a 1991 RMT study performed on the overall mill property, hydraulic conductivity is between  $3.5 \times 10^{-4}$  to  $6 \times 10^{-3}$  cm per second with a gradient ranging from 0.002 to 0.04. According to the study, groundwater generally flows northwest away from the river in a radial pattern around the dam.
- iv. Identify and describe locations/distance of potable and/or municipal Wells within 1200 feet of the site.  
There are no potable and/or municipal wells within 1200 feet of the site. The City of Nekoosa has five city wells, but all are greater than 1,200 feet from the site.

### 3. Site Investigation Summary

#### A. General

- i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

On May 21, 1996, the above-ground leaking sulfuric acid pipe was discovered. Sodium carbonate was used on the acid pool to neutralize the acid. Once the acid was neutralized, the area was excavated from 4 inches to 4 feet below ground surface (bgs). A total of 21 cubic yards of material was removed and amended with 200 pounds of lime. Some impacted soil was left in place due to concerns about the building foundations. The area was covered with a concrete slab and curbing system to direct surface water flow to the Mill's waste water treatment plant.

A groundwater monitoring well was installed on June 27, 1996 to assess groundwater conditions. Soil samples for pH were collected during the well installation and indicated 3.6 to 4.0 pH standard units (S.U.) from 2.0 to 4.5 feet bgs and then 6.0 to 6.1 pH S.U. from 5.0 to 6.5 feet bgs. Groundwater samples collected from the well in 1996 indicated pH levels ranging from 2.8 to 4.4 pH S.U. On August 8, 1996, a sump was installed to a depth of approximately 10 feet bgs. Samples for pH and total sulfate were collected at various times from 1996 to 2011 which pH levels ranged from 3.6 to 7.2 pH S.U. and sulfate concentrations ranged from 700 to 1,750 mg/L. The sump pump was operational from 1996 to 1998 and 2004.

On June 19, 2013 groundwater samples were collected from the sump for total sulfates and pH. Sulfate concentrations were detected at 152 mg/L and was significantly lower than past sampling results. The pH level was detected at 3.6 pH S.U. and is consistent with past pH levels. The sump was turned on and re-sampled on August 9, 2013. Sulfate concentrations increased slightly to 273 mg/L but are significantly below historic levels. pH was detected within natural occurring background levels at 6.1 pH S.U.

- ii. Identify whether contamination extends beyond the source property boundary, describe the off-site media (e.g., soil, groundwater, etc.) impacted, and the vertical and horizontal extent of off-site impacts.  
Contamination was limited to the spill area and does not extend beyond the source property.
- iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

A building foundation is located adjacent to the spill area. Some impacted soil was left in place due to concerns about

the building foundations. The area was covered with a concrete slab and curbing system to direct surface water flow to the Mill's waste water treatment plant.

#### B. Soil

- i. Describe degree and extent of **soil contamination** at and from this site. Relate this to known or suspected sources and known or potential receptors/migration pathways.

Soil samples for pH were collected during the well installation on June 27, 1996 and indicated 3.6 to 4.0 pH standard units (S.U.) from 2.0 to 4.5 feet bgs and then 6.0 to 6.1 pH S.U. from 5.0 to 6.5 feet bgs. Impacted soil was excavated from 4 inches to 4 feet bgs. Soil samples from the base of the excavation were also collected at approximately 4 feet bgs. Impacted soil was left in place near building foundations due to concerns about the building foundations.

- ii. Describe the level and types of **soil contaminants** found in the upper four feet of the soil column.  
The contaminated area was excavated to approximately 4 feet below ground surface. Soil contamination was left in place near building foundations. The soil is contaminated from the sulfuric acid spill resulting in low pH.
- iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site: for example, a Residual Contaminant Level (RCL), a Site-Specific Residual Contaminant Level (SSRCL), or a Performance Standard as determined under ss NR 720.09, 720.11 and 720.19, Wis. Adm. Code. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/information in Attachment C.

pH levels of the soils were used for SSRCLs. SSRCLs were established based on review of the Soil Survey of Wood County, Wisconsin for the region around Nekoosa. Soils around Nekoosa ranged from 4.5 pH units to 8.0 pH units. See attached page 41 from the Survey.

#### C. Groundwater

- i. Describe degree and extent of groundwater contamination at or from this site. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.

Samples for pH and total sulfate were collected from a monitoring well at various times from 1996 to 2011. pH levels ranged from 3.6 to 7.2 pH S.U. and sulfate concentrations ranged from 700 to 1,750 mg/L. In 2013, the monitoring well was re-sampled. pH levels ranged from 3.6 to 6.1 pH S.U. and sulfate ranged from 152 to 273 mg/L. A sump pump was operational from 1996 to 1998, 2004 and between the two 2013 sampling events.

- ii. Describe the presence of free product at the site, including the thickness, depth, and locations.  
Free product is not present on the site.

#### D. Vapor

- i. Describe how the vapor migration pathway was assessed, including locations where vapor or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.

It is unlikely that volatile organic vapors (VOCs) were generated from the source material, sulfuric acid. The application of sodium bicarbonate and soil excavation will limit vapors from the site.

- ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).

The

#### E. Surface Water and Sediment

- i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.

Surface water and/or sediment was not impacted at the site. The spill was localized to a relatively small area and was neutralized upon discovery. Upon excavation of contaminated soil, the area was capped with a concrete slab and a curbing system was installed to direct surface water to the Mill's waste water treatment facility.

- ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.

Surface water and/or sediment was not impacted at the site. The spill was localized to a relatively small area and was neutralized upon discovery. Upon excavation of contaminated soil, the area was capped with a concrete slab and a curbing system was installed to direct surface water to the Mill's waste water treatment facility.

### 4. Remedial Actions Implemented and Residual Levels at Closure

- A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

Sodium carbonate was used on the sulfuric acid pool to neutralize the acid. Once the acid was neutralized, the area was

excavated from 4 inches to 4 feet bgs. A total of 21 cubic yards of material was removed and amended with 200 pounds of lime. The neutralized material was disposed of in the Domtar 03 Landfill.

- B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.  
Sodium carbonate was used on the sulfuric acid pool to neutralize the acid. Once the acid was neutralized, the area was excavated from 4 inches to 4 feet bgs. A total of 21 cubic yards of material was removed and amended with 200 pounds of lime. The neutralized material was disposed of in the Domtar 03 Landfill.
- C. Describe the *active* remedial actions taken at the site, including: type of remedial system(s) used for each media impacted; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.  
An over excavation was conducted in the area of the spill to an approximate depth of 4 inches to 4 feet below ground surface. A sump was installed to a depth of approximately 10 feet bgs and operated from 1996 to 1998, 2004, and between the two sampling events in 2013. When the sump was operational pH levels generally tended to be at background levels. In addition, the total sulfate concentrations are trending down.
- D. Provide a discussion of the nature, degree and extent of residual contamination that will remain at the site or on off-site affected properties after case closure.  
Residual contamination exists near the building foundations adjacent to the spill site. Contamination is limited to a small area in the southeast central part of the mill and off-site properties are not affected.
- E. Describe the remaining soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds the ch. NR720, Wis. Adm. Code, standard(s) for direct contact.  
Residual contamination exists near the building foundations adjacent to the spill site. A concrete slab has been placed over the spill area.
- F. Describe the remaining soil contamination in the vadose zone that attains or exceeds the soil standard(s) for the groundwater pathway.  
Residual contamination exists near the building foundations adjacent to the spill site. A concrete slab has been placed over the spill area. The total sulfate concentration from the sample collected in June, 2013 was between the Enforcement Standard and Preventative Action Limit, but is significantly below historic levels.
- G. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.  
The concrete slab will be maintained as the cover and the curbing system directs the flow of surface water to the Mill's waste water treatment plant. The site will be placed on the GIS Registry.
- H. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration, (e.g. stable or receding groundwater plume).  
Sulfate concentrations are trending down. In June, 2013, the total sulfate concentration was between the Enforcement Standard and Preventative Action Limit, but is significantly below historic levels. pH was detected within natural occurring background levels.
- I. Identify how all exposure pathways were removed and/or adequately addressed by immediate and/or remedial action(s) described above in paragraphs, B, C, D, E and F.  
A majority of the contaminated soil was over excavated and only residual soil contamination is present near building foundations. A concrete slab was constructed over the spill area to act as a cap. A curbing system directs surface water to the Mill's waste water treatment facility. Sulfate concentrations have been trending down and are significantly below historic levels. pH was detected in the last sample within naturally occurring background levels.
- J. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.  
System hardware (monitoring well and sump) will be removed as part of the site closure.
- K. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.  
Although groundwater sampling in June 2013 indicate that the total sulfate concentration was between the Enforcement Standard and Preventative Action Limit, the concentration is significantly below historic levels. Natural attenuation should continue to be used as a groundwater remedy and the site placed on the GIS Registry for sites with groundwater contamination equal or greater than the ES for sulfuric acid.
- L. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.  
A WDNR action level for sulfuric acid has not been established. In addition, the remedial efforts have mitigated the extent of impacts and vapors.

M. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.

Surface water and sediment were not affected. The area has been capped by concrete. In addition, surface water is directed to the Mill's waste water treatment facility.

**5. Continuing Obligations: Situations where a maintenance plan(s) and inclusion on DNR's GIS Registry are required.**

Directions: Check all that apply to this case closure request:

	This scenario Applies to this Case Closure		Case Closure Scenario: Maintenance Plans and GIS Registry	Maintenance Plan (s) Required in Attachment D	GIS Registry Listing
	A. On-Site	B. Off-Site			
i.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Engineering Control/Barrier for Direct Contact	✓	✓
ii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Engineering Control/Barrier for Groundwater Infiltration	✓	✓
iii.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor Mitigation - post closure passive system	✓	✓
iv.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor Mitigation - post closure active system	✓	✓
v.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None of the above scenarios apply to this case closure	NA	NA

**6. Continuing Obligations: Situations where inclusion on DNR's GIS Registry is required.**

Directions: Check all that apply to this case closure request:

	This scenario Applies to this Case Closure		Case Closure Scenario: GIS Registry Only	GIS Registry Listing
	A. On-Site	B. Off-Site		
i.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination exceeds ch. NR 720 generic or site-specific RCLs	✓
ii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sites with groundwater contamination equal to or greater than the ch. NR 140, enforcement standards (ES)	✓
iii.	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring wells: lost, transferred or remaining in use	✓
iv.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Structural Impediment (not as a performance standard)	✓
v.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination remaining at ch. NR 720 Industrial Use levels	✓
vi.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor intrusion may be future, post-closure issue if building use or land use changes	✓
vii.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None of the above scenarios apply to this case closure	NA

**7. Underground Storage Tanks**

- A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action?  Yes  No
- B. Do any upgraded tanks meeting the requirements of ch. SPS 310, Wis. Adm. Code, exist on the property?  Yes  No
- C. If the answer to question 7b is yes, is the leak detection system currently being monitored?  Yes  No

**Data Tables (Attachment A)**

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

**General directions for Data Tables:**

- Use bold and italics font on information of importance on tables and figures. Use **bold font** for ch. NR 140, Wis. Adm. Code, groundwater enforcement standard (ES) attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, groundwater preventive action limit (PAL) standard attainments or exceedances.

- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e. do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data must include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15(2)(g)3, Wis. Adm. Code, in the format required in s. NR 716.15(2)(h)3, Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Pre-remedial Soil Analytical Table, etc).
- For required documents, each table (e.g., A.1., A.2., etc.,) should be a separate PDF.

#### A. Data Tables

- A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates, for all groundwater sampling points e.g. monitoring wells, temporary wells, sumps, extraction wells, any potable wells and any other wells, extraction wells and any potable wells for which samples have been collected.
- A.2. **Pre-remedial Soil Analytical Table(s):** Table(s) showing the soil analytical results and collection dates - prior to conducting the interim and/or remedial action. Indicate if sample was collected above or below the all-time low water table (unsaturated verses saturated).
- A.3. **Post-remedial Soil Analytical Table(s):** Table(s) showing the post-remedial action soil analytical results and collection dates. Indicate if sample was collected above or below the all-time low water table (unsaturated verses saturated).
- A.4. **Pre and Post Remaining Soil Contamination Soil Analytical Table(s):** Table(s) showing only the pre and post remedial action soil analytical results that exceed a Residual Contaminate Level (RCL) or a Site-Specific Residual Level (SSRCL).
- A.5. **Vapor Analytical Table:** Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.
- A.6. **Other Media of Concern (e.g., sediment or surface water):** Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, time period for sample collection, method and results sampling.
- A.7. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.
- A.8. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

#### Maps and Figures (Attachment B)

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

#### General Directions for all Maps and Figures:

- If any map or figure is not relevant to the case closure request, you must fully explain the reason(s) why and attach that explanation (properly labeled with the map/ figure title) in Attachment B.
- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11x17 inches, in a portable document format (pdf) readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(2)(h)1 and 726.05(3)(a)4.d, Wis Adm. Code.
- Do not use shading or highlights on any of the analytical tables.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.,) should be a separate PDF.

#### B.1. Location Maps

- B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all impacted and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.
- B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for on-site and applicable off-site properties, contaminant sources, utility lines, monitoring wells

and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under ss. NR 720.09, 720.11 and 720.19, Wis. Adm. Code.

- B.1.c. **RR Site Map:** From RR Sites Map (<http://dnrmaps.wi.gov/imf/imf.jsp?site=brts2>) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

## B.2. Soil Figures

- B.2.a. **Pre-remedial Soil Contamination:** Figure(s) showing the sample location of all pre-remedial, unsaturated contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeded a Residual Contaminant Level (RCL) or a Site-Specific Residual Contaminant Level (SSRCL) as determined under ss. NR 720.09, 720.11 and 720.19, Wis. Adm. Code.
- B.2.b. **Post-remedial Soil Contamination :** Figure(s) showing the sample location of all post-remedial, unsaturated contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site-Specific Residual Contaminant Level (SSRCL) as determined under ss. NR 720.09, 720.11 and 720.19, Wis. Adm. Code. A separate contour line should be used to indicate the extent of residual direct contact exceedances.
- B.2.c. **Pre/Post Remaining Soil Contamination:** Figure(s) showing the only location of all pre and post remedial residual soil sample location(s) where unsaturated contaminated soil remains after remediation and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site-Specific Residual Level (SSRCL) as determined under ss. NR 720.09, 720.11 and 720.19, Wis. Admin. Code. A separate contour line should be used to indicate the extent of residual direct contact exceedances.

## B.3. Groundwater Figures

- B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:
- Source location(s) and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).
  - Source location(s) and lateral and vertical extent if groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES)
  - Surface features, including buildings and basements, and show surface elevation changes.
  - Any areas of active remediation within the cross section path, such as excavations or treatment zones.
  - Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1b)
- B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, Preventive Action Limit (PAL) and/or an Enforcement Standard (ES). Indicate the date and direction of groundwater flow based on the most recent sampling data.
- B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.
- B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been previously abandoned.

## B.4. Vapor Maps and Other Media

- B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway, in relation to remaining soil and groundwater contamination, including sub-slab, indoor air, soil vapor, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.
- B.4.b. **Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.
- B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank)

## Documentation of Remedial Action (Attachment C)

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

### General Directions:

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc).

- If the documentation requested below is “not applicable” to the site-specific circumstances, include a brief explanation to support that conclusion.
- If the documentation requested below has already been submitted to the Department, please note the title and date of the report for that particular document requested.
  - C.1. **Site investigation documentation**, that has not otherwise been previously submitted.
  - C.2. **Investigative waste** disposal documentation.
  - C.3. **NR 720.19 analysis**, assumptions and calculations for site specific RCLs (SSRCLs) , with justification, including EPA Soil Screening Level Model Calculations and results.
  - C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.
  - C.5. **Decommissioning of Remedial Systems**. Include plans to properly abandon any systems or equipment upon receiving conditional closure.
  - C.6. **Photos**. For sites or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system. Include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features should be visible and discernible. Photographs must be labeled with the site name, the features shown, location and the date on which the photograph was taken.
  - C.7. **Other**. Include any other relevant documentation not otherwise noted above. (This section may remain blank)

### Maintenance Plan(s) (Attachment D)

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

When one or more “maintenance plans” are required for a site closure, include in each maintenance plan all required information in sections D.1. through D.5. below, and attach the plan(s) in Attachment D. The following “model” maintenance plans can be located at: (1) Maintenance plan for a engineering control or cover: <http://dnr.wi.gov/topic/Brownfields/documents/maintenance-plan.pdf>; and (2) Maintenance plan for vapor intrusion: [http://dnr.wi.gov/topic/Brownfields/documents/appendix5\\_606.pdf](http://dnr.wi.gov/topic/Brownfields/documents/appendix5_606.pdf).

- D.1. **Location map(s)** which show(s): (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) and all property boundaries.
- D.2. **Brief descriptions** of the type, depth and location of residual contamination.
- D.3. **Description of maintenance action(s)** required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
- D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter.
- D.5. **Contact information**, including the name, address and phone number of the individual or facility who will be conducting the maintenance.

### Monitoring Well Information (Attachment E)

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

#### General Directions:

Attach monitoring well construction and development forms (DNR FORM 4400-113 A and B: [http://dnr.wi.gov/topic/groundwater/documents/forms/4400\\_113\\_1\\_2.pdf](http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf)) for all wells that will remain in-use, be transferred to another party or that could not be located. A figure of these wells should be included in Attachment B.3.d.

#### Select One:

- No monitoring wells were required as part of this response action.
- All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site
- Select One or More:**
- Not all monitoring wells can be located, despite good faith efforts. Attachment E must include description of efforts made to locate the “lost” wells.
- One or more wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s).
- One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason(s) the well(s) will remain in use.

**Notifications to Owners of Impacted Properties (Attachment F)**

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

**General Directions:**

- State law requires that the responsible party provide a 30-day, written advance notice (i.e., a letter) to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned.
- A model "template letter" for these mandatory notifications can be downloaded at: <http://dnr.wi.gov/files/PDF/pubs/rr/RR919.pdf>.

**Check all that apply to the site-specific circumstances of this case closure:**

	<b>A. Impacted Source Property and Owner is not Conducting Cleanup</b>	<b>B. Impacted Right of Way</b>	<b>C. Impacted Off-Site Property Owner</b>	<b>Impacted Property Notification Situations: Ch. NR 726 Appendix A Letter</b>
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual groundwater contamination exceeds Ch. NR 140 Wis. Administrative Code enforcement standards.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination that attains or exceeds standards is present after the remedial action is complete, and must be properly managed should it be excavated or removed.
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	An engineered cover or a soil barrier (e.g. pavement) must be maintained over contaminated soil for direct contact or groundwater infiltration concerns.
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial land use soil standards were used for the clean-up standard.
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A vapor mitigation system (or other specific vapor protection) must be operated and maintained.
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vapor assessment needed if use changes.
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structural impediment.
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lost, transferred or open monitoring wells.
9.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable.

If any of the previous boxes in rows 1 thru 8 were checked, include the following as part of Attachment F:

- FORM 4400-246;
- Copy of each letter sent, 30 days or more prior to requesting closure; and
- Proof of receipt for each letter.
- For this site closure,   0   (number) property (ies) has/have been impacted, the owners have been notified, and copies of the letters and receipts are included in Attachment F.

**Source Legal Documents (Attachment G)**

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

Include all of the following documents, in this order, in Attachment G:

- G.1. **Deeds - Source Property and Other Impacted Properties:** The most recent deed with legal descriptions clearly labeled for (1) the **Source Property** (where the contamination originated) and (2) all **off-source** (off-site) properties where letters were required to be sent per the ch. NR 700, Wis. Adm. Code, rule series (e.g., off-site cover maintenance required, lost monitoring well, off-site cover property impacts to groundwater exceeding the ch. NR 140, Wis. Adm. Code).  
*Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- G.2. **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (Lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).
- G.3. **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- G.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties.



**Table A.1. - Groundwater Analytical Table**  
**Domtar Sulfuric Acid Spill**  
**Nekoosa, Wisconsin**

**Sulfuric Acid Extraction Sump Analytical Results**

Date	pH (SU)	*Sulfate (mg/L)		Date	pH (SU)	*Sulfate (mg/L)	
		ES 250	PAL 125			ES 250	PAL 125
8/8/1996	4.7	--		5/18/2000	3.8	1250	
8/9/1996	5.2	--		6/7/2000	4.4	700	
8/12/1996	5.4	--		6/13/2000	4.0	900	
8/13/1996	4.9	--		6/20/2000	4.2	800	
8/14/1996	4.7	--		6/27/2000	4.3	800	
8/15/1996	4.9	--		7/4/2000	4.2	850	
8/16/1996	5.8	--		7/11/2000	4.5	850	
8/19/1996	5.8	--		7/18/2000	4.7	900	
8/20/1996	5.8	--		7/25/2000	4.3	800	
8/21/1996	5.8	--		8/1/2000	4.2	950	
8/22/1996	5.8	--		8/8/2000	4.6	850	
8/26/1996	5.8	--		8/15/2000	4.9	900	
8/27/1996	5.9	--		8/22/2000	4.6	900	
8/28/1996	5.8	--		8/29/2000	4.5	850	
8/29/1996	5.8	--		5/7/2003	3.7	1150	
9/3/1996	5.8	1,750		6/10/2003	4.3	950	
9/4/1996	6.0	1,625		7/12/2003	4.5	900	
9/5/1996	5.9	1,500		8/22/2003	4.3	900	
9/6/1996	5.8	1,250		9/10/2003	4.4	950	
9/9/1996	6.0	1,250		10/17/2003	4.5	850	
9/10/1996	6.0	900		11/22/2003	4.6	900	
9/11/1996	6.2	900		5/15/2004	3.9	1200	
9/12/1996	6.3	900		6/18/2004	4.1	1000	
9/16/1996	6.2	900		7/22/2004	4.5	900	
9/19/1996	6.0	900		9/26/2004	4.2	850	
9/23/1996	6.1	900		10/25/2004	4.5	900	
9/26/1996	6.4	850		6/10/2205	3.7	1150	
9/30/1996	6.4	800		7/22/2005	4.2	950	
10/7/1996	6.8	850		8/19/2005	4.5	950	
10/11/1996	6.8	850		9/14/2005	4.6	800	
10/14/1996	6.9	900		10/27/2005	4.4	850	
10/21/1996	6.9	850		8/2/2006	3.7	1050	
10/28/1996	7.1	850		10/17/2006	4.1	900	
11/4/1996	7.1	800		5/10/2007	3.8	1150	
11/11/1996	7.2	850		7/12/2007	4.0	950	
11/18/1996	7.1	850		10/25/2007	4.3	900	
11/21/1996	6.8	850		5/19/2010	3.7	1100	
12/3/1996	7.0	850		7/28/2010	4.1	950	
12/9/1996	7.0	850		10/20/2010	4.3	850	
12/16/1996	7.1	900		5/10/2011	3.6	1150	
1/14/1997	6.8	1,250		8/9/2011	4.2	1050	
3/12/1997	6.2	1,000		10/6/2011	4.6	900	
4/9/1997	6.4	1,000		10/18/2011	4.6	850	
5/8/1997	6.2	1,000		6/19/2013	3.6	152	
5/15/1997	6.1	1,000		8/15/2013	6.1	273	
5/22/1997	5.9	750					
5/30/1997	6.4	800					
6/5/1997	6.2	800					
6/12/1997	6.1	850					
6/19/1997	6.2	800					
7/1/1997	6.4	900					
8/5/1997	6.2	900					
9/2/1997	6.2	850					
10/5/1997	6.3	850					
10/12/1997	6.2	900					
10/19/1997	5.8	950					
10/26/1997	6.1	950					
11/2/1997	5.9	800					
11/9/1997	6.3	800					
11/16/1997	5.8	850					
11/23/1997	6.0	850					
11/30/1997	5.9	900					
12/7/1997	5.7	850					
1/13/1998	5.7	800					
2/10/1998	5.8	800					
3/3/1998	6.0	800					
3/10/1998	5.8	800					

Notes: \*Total Sulfates  
Sulfate concentrations trending down  
S.U. = Standard Units  
-- = Not Measured

**Table A.2. - Pre-remedial Soil Analytical Table**  
**Domtar Sulfuric Acid Spill**  
**Nekoosa, Wisconsin**

Pre-remedial soil analytical data was not obtained due to the quick turn-around of remedial activities. On May 21, 1996 around 6:00 am the leak was observed. Neutralization of the area took place at approximately 9:30 am, May 21, 1996. Following neutralization, the area was excavated through May 23, 1996. Soil pH was assessed during excavation (see Table A.4.). Excavation was performed until soil was removed to a background pH or until building integrity would have been jeopardized. Lime was spread on the base of the excavation to further neutralize any impacted soil left in place. The excavated area was filled with clean soil on the afternoon of May 24, 1996.

**Table A.3 - Post-remedial Soil Analytical Table**  
**Domtar Sulfuric Acid Spill**  
**Nekoosa, Wisconsin**

**pH Analyses on Soil Samples Collected During Temporary Groundwater Monitoring Well Installation**

Date	Sample ID	Depth (feet)	pH (S.U.)	Description
6/27/1996	S-1	2.0 - 2.5	3.6	Fine to Medium Sand
6/27/1996	S-2	3.0 - 3.5	4	Fine to Medium Sand
6/27/1996	S-3	4.0 - 4.5	4	Fine to Medium Sand
6/27/1996	S-4	5.0 - 5.5	6	Silt, Sandy Clay, Organic Silt
6/27/1996	S-5	6.0 - 6.5	6.1	Silt, Sandy Clay, Organic Silt

**Table A.4. - Post Remaining Soil Contamination Soil Analytical Table  
Domtar Sulfuric Acid Spill  
Nekoosa, Wisconsin**

**Sulfuric Acid Spill pH Samples Obtained During Remedial Activities**

Date	Sample Number	Depth	pH
		(inches)	
5/21/1996	1	12	6.91
5/21/1996	2	12	6.87
5/21/1996	3	6	8.21
5/21/1996	4	12	8.21
5/21/1996	5	18	9.82
5/21/1996	6	32	8.71
5/21/1996	7	24	2.71
5/21/1996	8	24	4.04
5/21/1996	9	12	6.47
5/21/1996	10	24	2.34
5/21/1996	11	36	3.36
5/21/1996	12	6	6.98
5/21/1996	13	12	6.45
5/21/1996	14	6	6.7
5/21/1996	15	30	3.79
5/21/1996	16	6	7.5
5/21/1996	17	6	7.48
5/21/1996	18	48	3.82
5/21/1996	19	12	7.09
5/21/1996	20	6	8.35
5/21/1996	21	26	1.82
5/21/1996	22	6	6.3
5/21/1996	23	26	3.82

**Table A.5. - Vapor Analytical Table**  
**Domtar Sulfuric Acid Spill**  
**Nekoosa, Wisconsin**

It is unlikely that volatile organic vapors (VOCs) were generated from the source material, sulfuric acid. Therefore vapor collection was not conducted and there are no vapor analytical tables.

**Table A.6. Other Media of Concern  
Domtar Sulfuric Acid Spill  
Nekoosa, Wisconsin**

The spill was isolated and there was no other media of concern. Therefore other media was not collected and analyzed. There are no other media of concern analytical tables.

**Table A.7. Water Level Elevations  
Domtar Sulfuric Acid Spill  
Nekoosa, Wisconsin**

**Monitoring Points Near Sulfuric Acid Spill Location**

Well I.D.	Date	Time	Ground Surface Elevation (Feet)	TPVC Elevation (Feet)	Screen Interval (Feet)	Screen Interval Elevation (Feet)	Depth to Water below TPVC (Feet)	Depth of Water Below Ground Surface (Feet)	Groundwater Elevation (Feet)
Sump	6/19/2013	--	954.76	953.96	5.0-15.0	948.96 - 938.96	6.35	7.15	947.61
	8/15/2013	10:46					10.46	11.26	943.50
Sand Point Well	6/19/2013	--	952.00	951.68	--	--	7.56	7.88	944.12
	8/15/2013	11:15					3.68	4.00	948.00
B-9	8/16/1996	--	953.70	953.35	--	--	7.54	7.89	945.81
	5/19/1997	--					6.40	6.75	946.95
	6/19/2013	11:20					6.82	7.17	946.53
	8/15/2013	11:01					7.70	8.05	945.65
B-13	8/16/1996	--	954.39	953.94	--	--	8.25	8.70	945.69
	5/19/1997	--					6.80	7.25	947.14
	6/19/2013	11:06					7.75	8.20	946.19
	8/15/2013						8.76	9.21	945.18
B-15	8/16/1996	--	--	--	--	--	7.42	--	--
	5/19/1997	--					7.50	--	--
	6/19/2013*	--					--	--	--
B-17	6/19/2013	11:13	954.53	954.28	--	--	7.82	8.07	946.46
	8/15/2013						8.77	9.02	945.51

Notes:  
 TPVC - Top of PVC  
 -- Not Measured  
 \* Well Missing

**Table A.8. Other  
Domtar Sulfuric Acid Spill  
Nekoosa, Wisconsin**

**Monitoring Points Near Sulfuric Acid Spill Location**

Well I.D.	Date	Time	Turbidity	After Sampling Dissolved Oxygen (mg/L)	Temp (C)	pH (Units)	Sulfate (mg/L)	Conductivity (umhos/cm)	Color	Odor
Sump	6/19/2013	--	--	--	--	6.25	--	--	--	None
	8/15/2013	10:46	Low	0.33	22.93	5.51	--	2.17	Clear	None
Sand Point Well	6/19/2013	--	--	--	--	--	--	--	--	None
	8/15/2013	11:15	--	--	--	--	--	--	--	None
B-9 New Pulp Storage	8/16/1996	--	High	--	20.50	6.19	220	1370	Brown	Strong
	5/19/1997	--	--	--	--	6.4	--	--	--	--
	6/19/2013	11:20	--	--	--	--	--	--	--	None
	8/15/2013	11:01	--	--	--	--	--	--	--	None
B-13 New Pulp Storage	8/16/1996	--	High	--	13.50	5.84	98	2820	Brown	None
	5/19/1997	--	--	--	--	6.8	--	--	--	--
	6/19/2013	11:06	--	--	--	6.51	--	--	--	None
B-15 New Pulp Storage	8/15/2013	--	--	--	--	--	--	--	--	None
	8/16/1996	--	High	--	18.00	6.53	95	3920	Black	Slight
	5/19/1997	--	--	--	--	7.5	--	--	--	--
B-17 New Pulp Storage	6/19/2013*	--	--	--	--	--	--	--	--	None
	8/15/2013	11:13	--	--	--	--	--	--	--	None
	8/15/2013		--	--	--	--	--	--	--	None

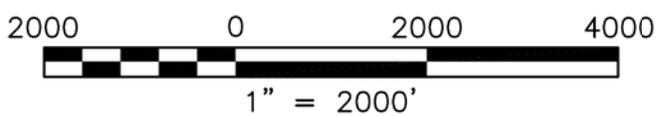
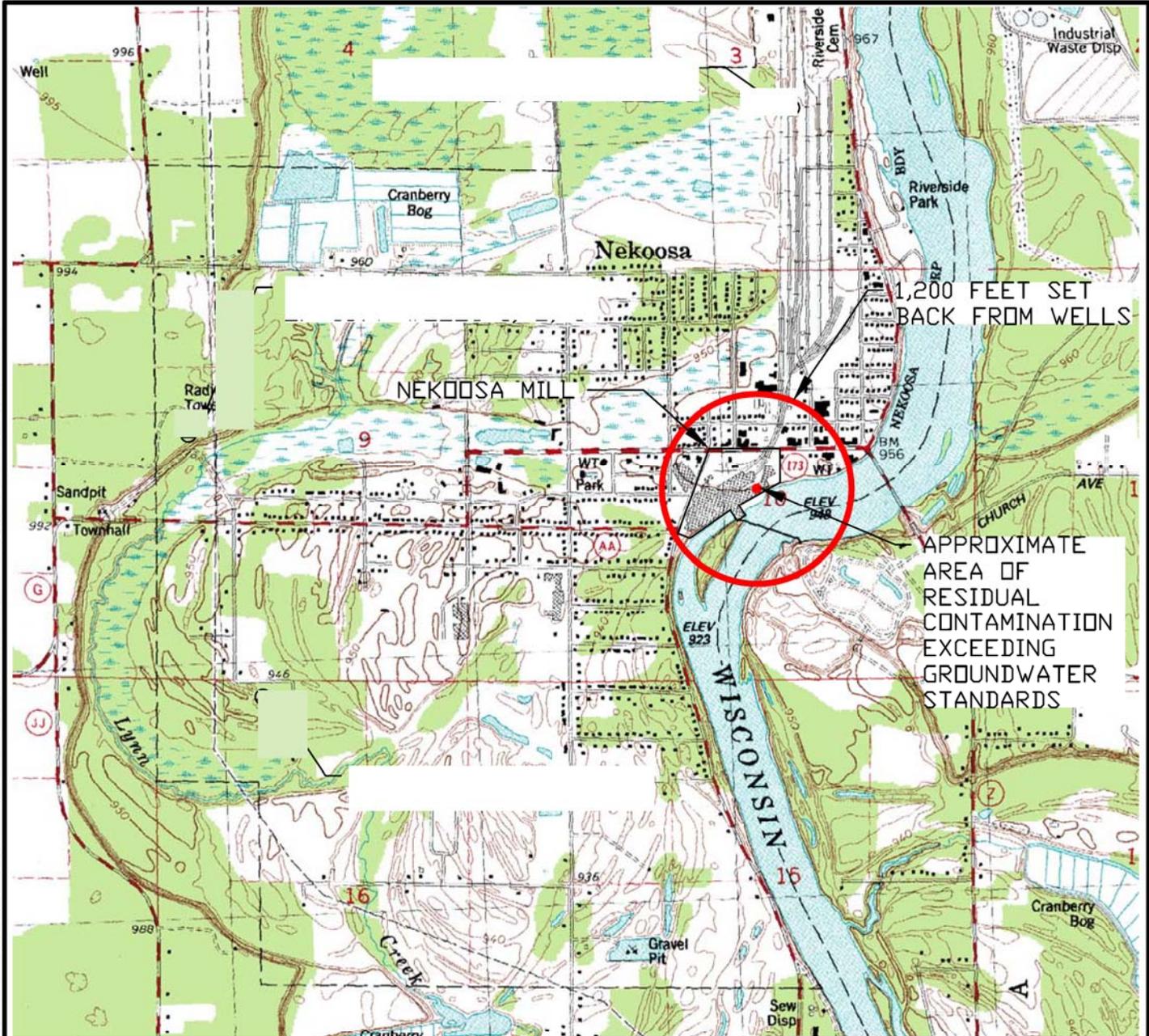
Notes:

TPVC - Top of PVC

-- Not Measured

\* Well Missing

ANSI A 8.5" x 11"  
Approved:—  
Checked:—  
Designer:—  
Project Management Initials:—  
DOMTAR 2013 ENVIRO900-WORKING DOCS-CAD/DRAWINGS/SULFURIC ACID SPILL CLOSURE/B.1.4-LOCATION MAP.DWG  
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MAP SOURCE: MODIFIED FROM NEKOOSA, WIS, U.S.G.S. QUADRANGLE, DATED 1984

**Nekoosa Papers Sulfuric Acid Spill**  
**BRRTS No. 02-72-195035**  
Domtar, Nekoosa, Wisconsin  
Project No.: 60302620 2013-09-12

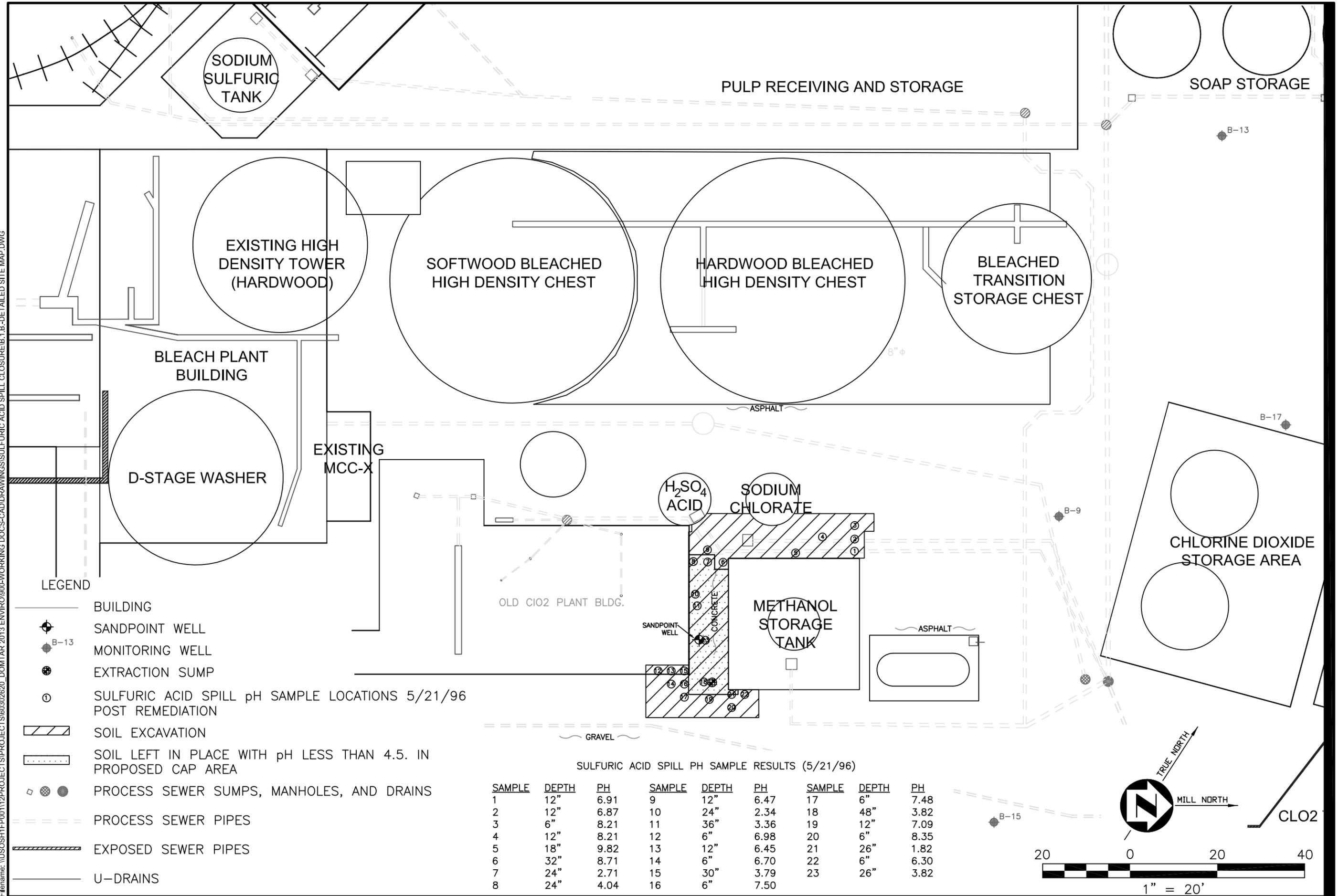
**LOCATION MAP**



**FIGURE B.1.a.**



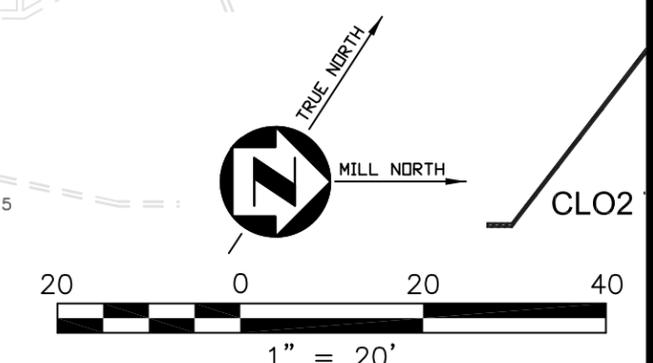
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 Project Management Initials: Designer: ---  
 Checked: --- Approved: --- ANSI B 11" x 17"



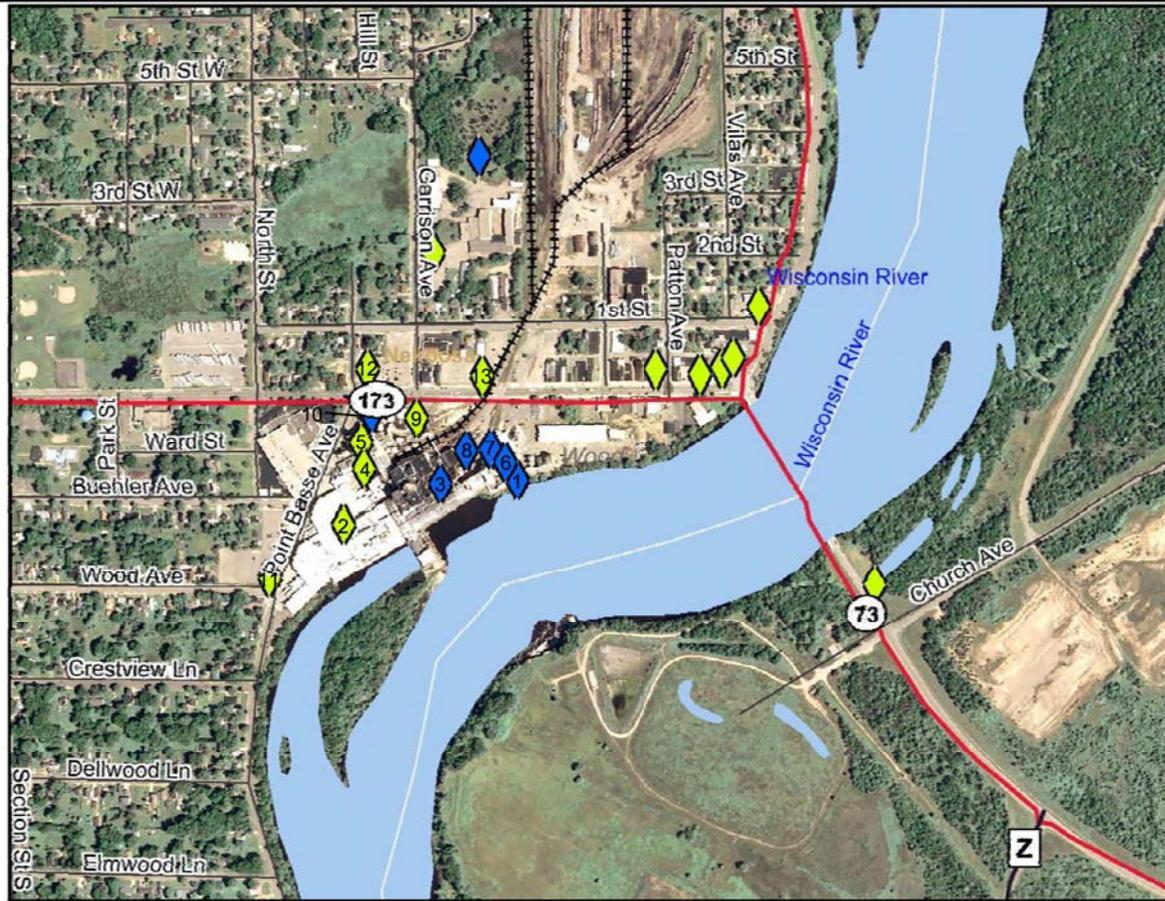
- LEGEND**
- BUILDING
  - SANDPOINT WELL
  - MONITORING WELL
  - EXTRACTION SUMP
  - SULFURIC ACID SPILL pH SAMPLE LOCATIONS 5/21/96 POST REMEDIATION
  - SOIL EXCAVATION
  - SOIL LEFT IN PLACE WITH pH LESS THAN 4.5. IN PROPOSED CAP AREA
  - PROCESS SEWER SUMPS, MANHOLES, AND DRAINS
  - PROCESS SEWER PIPES
  - EXPOSED SEWER PIPES
  - U-DRAINS

**SULFURIC ACID SPILL PH SAMPLE RESULTS (5/21/96)**

SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH
1	12"	6.91	9	12"	6.47	17	6"	7.48
2	12"	6.87	10	24"	2.34	18	48"	3.82
3	6"	8.21	11	36"	3.36	19	12"	7.09
4	12"	8.21	12	6"	6.98	20	6"	8.35
5	18"	9.82	13	12"	6.45	21	26"	1.82
6	32"	8.71	14	6"	6.70	22	6"	6.30
7	24"	2.71	15	30"	3.79	23	26"	3.82
8	24"	4.04	16	6"	7.50			



Last saved by: KYLES1(2013-09-12) Last Plotted: 2013-09-12  
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 Project Management Initials: Designer: Checked: Approved: ANS I A 8.5" x 11"



**BRRTS SITES ON THE SUBJECT PROPERTY**

#	BRRTS NO.	NAME
1	0272195035	NEKOOSA PAPERS SULFURIC ACID SPILL
2	0272195034	NEKOOSA PAPERS NEW CHEMICAL STORAGE AREA
3	0272195029	NEKOOSA PAPERS EVAPORATOR SEWER FAILURE
4	0272000464	NEKOOSA PAPERS NEKOOSA MILL
5	0372000254	NEKOOSA PAPERS
6	0272195036	NEKOOSA PAPERS NEW PULP STORAGE TNK AREA
7	0272195027	NEKOOSA PAPERS TRAIN SHED RECONSTR AREA
8	0272195031	NEKOOSA PAPERS COLLAPSED SEWER WOOD RM
9	0372001077	NEKOOSA WOODYARD
10	772052930	NEKOOSA PAPERS NEW ALKALI PLT WEAK WASH

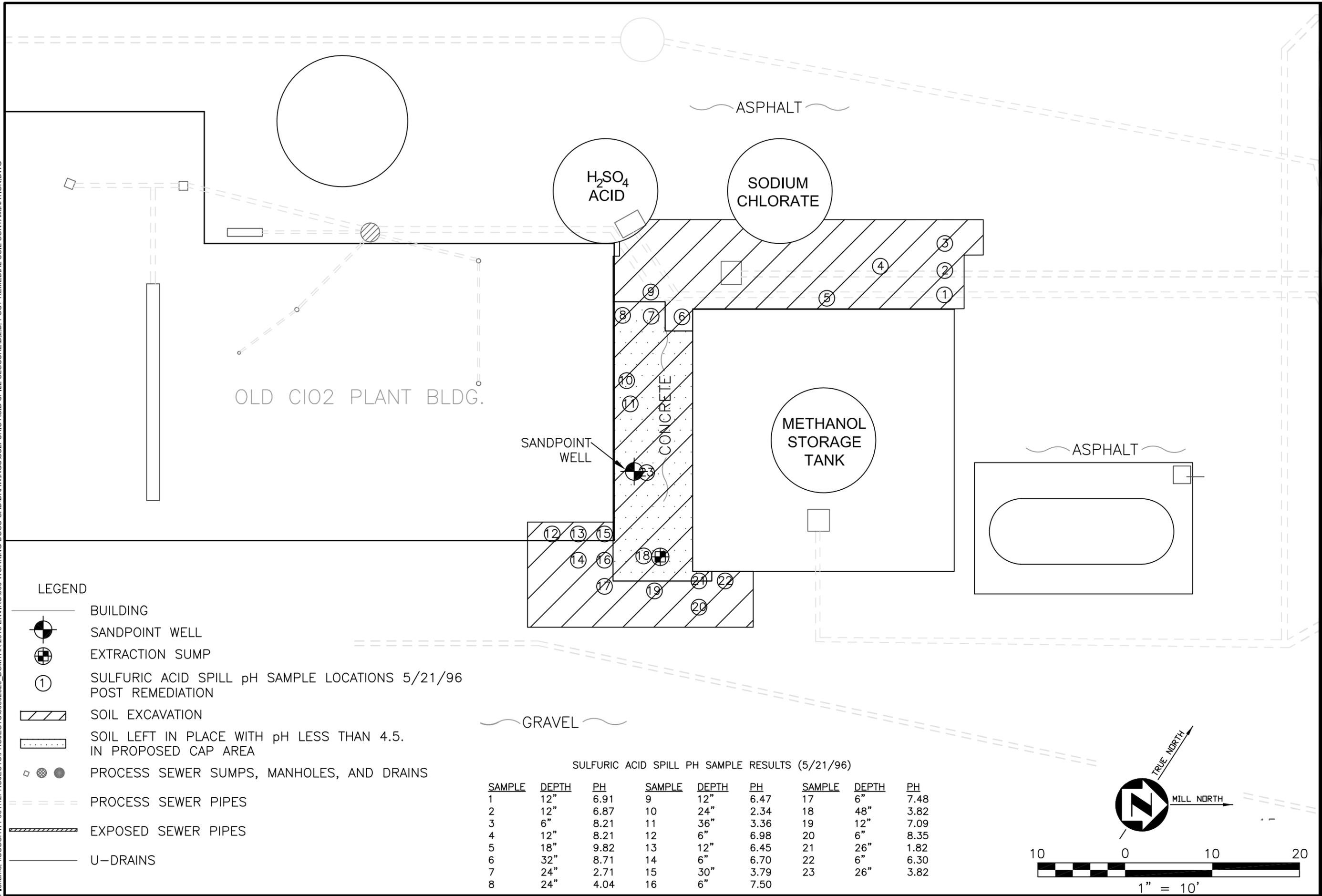
**BRRTS SITES NEAR THE SUBJECT PROPERTY**

#	BRRTS NO.	NAME
11	0372000048	RESHESKE INC
12	0372099210	NEKOOSA PHILLIPS
13	0372000901	EFFLUENT TREATMENT PLT

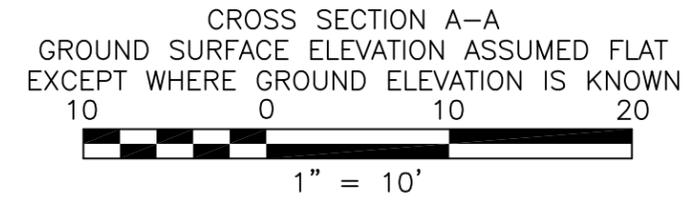
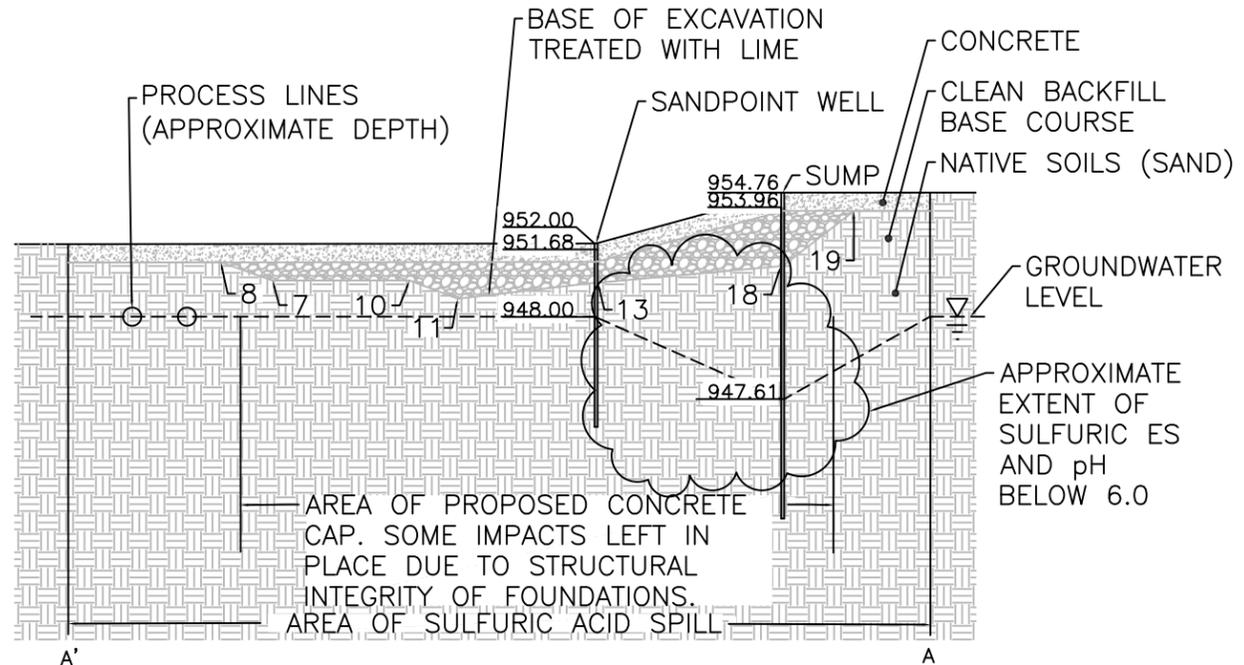
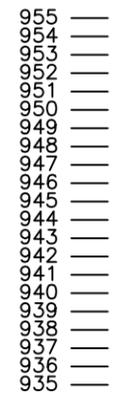
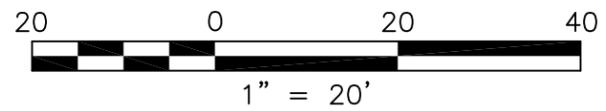
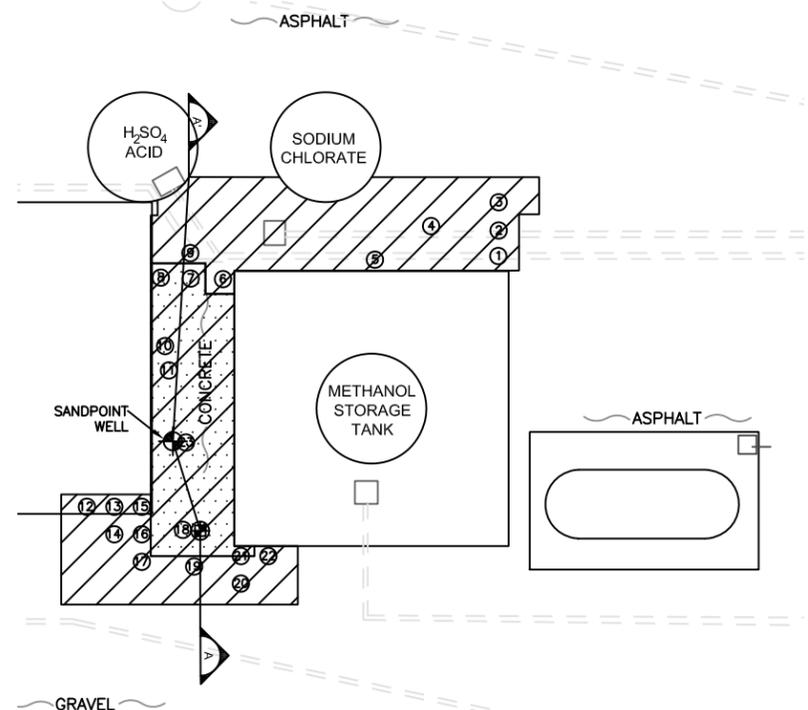
**Legend**

- Open Sites (ongoing cleanups)
- Open Sites (ongoing cleanups) - site boundaries shown
- Closed Sites (completed cleanups)
- Closed Sites (completed cleanups) - site boundaries shown
- County Boundary
- Railroads
- County Roads (WDDT)
- County Trunk Highway
- State and U.S. Highways (WDOT)
- State Trunk Highway
- US Highway
- Interstate Highways (WDOT)
- Interstate Highway
- Local Roads (WDOT)
- Civil Towns
- Civil Town
- 24K Open Water
- 24K Rivers and Shoreslines
- Municipalities

PRE-REMEDIAL SOIL ANALYTICAL DATA WAS NOT OBTAINED DUE TO THE QUICK TURN-AROUND OF REMEDIAL ACTIVITIES. ON MAY 21, 1996 AROUND 6:00 AM THE LEAK WAS OBSERVED. NEUTRALIZATION OF THE AREA TOOK PLACE AT APPROXIMATELY 9:30 AM, MAY 21, 1996. FOLLOWING NEUTRALIZATION, THE AREA WAS EXCAVATED THROUGH MAY 23, 1996. SOIL PH WAS ASSESSED DURING EXCAVATION (SEE FIGURE B.2.c). EXCAVATION WAS PERFORMED UNTIL SOIL WAS REMOVED TO A BACKGROUND PH OR UNTIL BUILDING INTEGRITY WOULD HAVE BEEN JEOPARDIZED. LIME WAS SPREAD ON THE BASE OF THE EXCAVATION TO FURTHER NEUTRALIZE ANY IMPACTED SOIL LEFT IN PLACE. THE EXCAVATED AREA WAS FILLED WITH CLEAN SOIL ON THE AFTERNOON OF MAY 24, 1996.



SINCE PRE-REMEDIAL SAMPLING WAS NOT PERFORMED (SEE EXPLANATION ON FIGURE B.2.a), SEE FIGURE B.2.b FOR POST-REMEDIAL SAMPLING, WHICH SHOWS ALL SAMPLING PERFORMED FOR THE SULFURIC ACID SPILL.

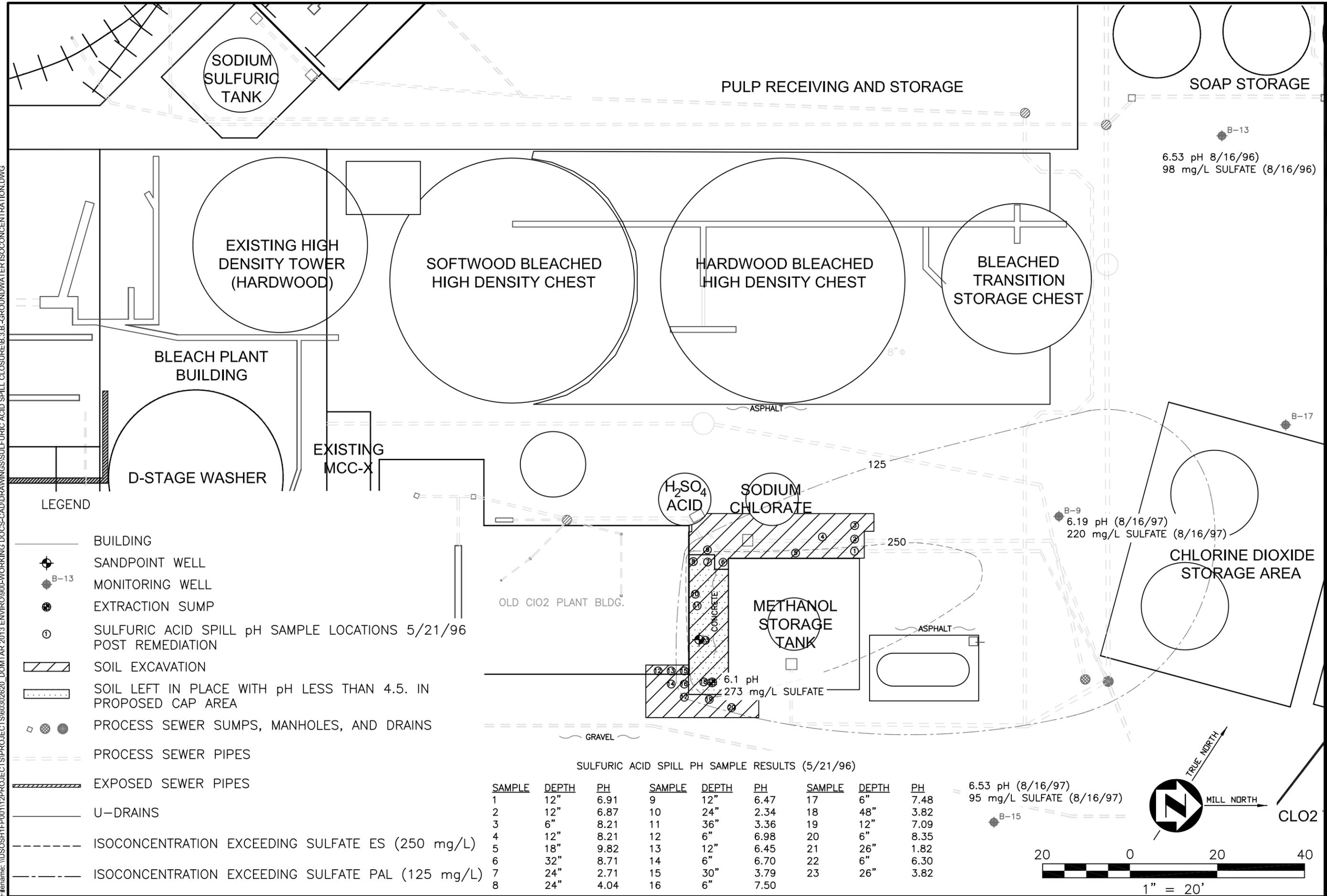


**LEGEND**

- BUILDING
- SANDPOINT WELL
- EXTRACTION SUMP
- SULFURIC ACID SPILL pH SAMPLE LOCATIONS 5/21/96 POST REMEDIATION
- SOIL EXCAVATION
- SOIL LEFT IN PLACE WITH pH LESS THAN 4.5. IN PROPOSED CAP AREA
- PROCESS SEWER SUMPS, MANHOLES, AND DRAINS
- PROCESS SEWER PIPES
- EXPOSED SEWER PIPES
- U-DRAINS

**SULFURIC ACID EXTRACTION SUMP ANALYTICAL RESULTS**

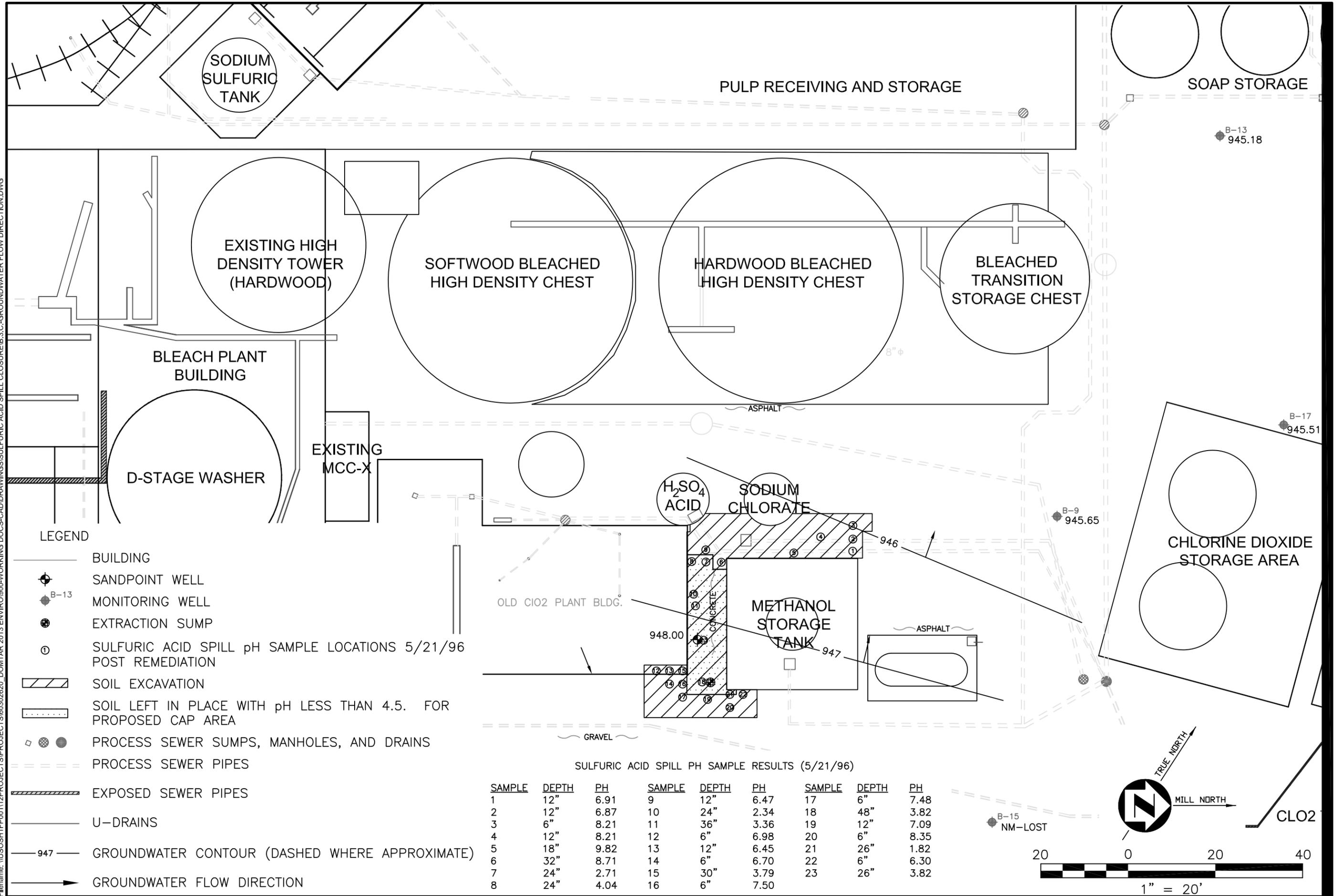
DATE	pH	SULFATE	DATE	pH	SULFATE	DATE	pH	SULFATE	DATE	pH	SULFATE
8/8/1996	4.7	-	10/11/1996	6.8	850	11/9/1997	6.3	800	10/17/2003	4.6	900
8/9/1996	5.2	-	10/14/1996	6.9	900	11/16/1997	5.8	800	11/22/2003	3.9	1200
8/12/1996	5.4	-	10/21/1996	6.9	850	11/23/1997	6.0	850	5/15/2004	4.1	1000
8/13/1996	4.9	-	10/28/1996	7.1	850	11/30/1997	5.9	850	6/18/2004	4.5	900
8/14/1996	4.7	-	11/4/1996	7.1	800	12/7/1997	5.7	900	7/22/2004	4.2	850
8/15/1996	4.9	-	11/11/1996	7.2	850	1/13/1998	5.7	850	9/26/2004	4.5	900
8/16/1996	5.8	-	11/18/1996	7.1	850	2/10/1998	5.8	800	10/25/2004	3.7	1150
8/19/1996	5.8	-	11/21/1996	6.8	850	3/3/1998	6.0	800	6/10/2005	4.2	950
8/20/1996	5.8	-	12/3/1996	7.0	850	3/10/1998	5.8	800	7/22/2005	4.5	950
8/21/1996	5.8	-	12/9/1996	7.0	850	5/18/2000	3.8	800	8/19/2005	4.6	800
8/22/1996	5.8	-	12/16/1996	7.1	900	6/7/2000	4.4	1250	9/14/2005	4.4	850
8/26/1996	5.8	-	1/14/1997	6.8	1,250	6/13/2000	4.0	700	10/27/2005	3.7	1050
8/27/1996	5.9	-	3/12/1997	6.2	1,000	6/20/2000	4.2	900	8/2/2006	4.1	900
8/28/1996	5.8	-	4/9/1997	6.4	1,000	6/27/2000	4.3	800	10/17/2006	3.8	1150
8/29/1996	5.8	-	5/8/1997	6.2	1,000	7/4/2000	4.2	800	5/10/2007	4.0	950
9/3/1996	5.8	1,750	5/15/1997	6.1	1,000	7/11/2000	4.5	850	7/12/2007	4.3	900
9/4/1996	6.0	1,625	5/22/1997	5.9	750	7/18/2000	4.7	850	10/25/2007	3.7	1100
9/5/1996	5.9	1,500	5/30/1997	6.4	800	7/25/2000	4.3	900	5/19/2010	4.1	950
9/6/1996	5.8	1,250	6/5/1997	6.2	800	8/1/2000	4.2	800	7/28/2010	4.3	850
9/9/1996	6.0	1,250	6/12/1997	6.1	850	8/8/2000	4.6	950	10/20/2010	3.6	1150
9/10/1996	6.0	900	6/19/1997	6.2	800	8/15/2000	4.9	850	5/10/2011	4.2	1050
9/11/1996	6.2	900	7/1/1997	6.4	900	8/22/2000	4.6	900	8/9/2011	4.6	900
9/12/1996	6.3	900	8/5/1997	6.2	900	8/29/2000	4.5	900	10/6/2011	4.6	850
9/16/1996	6.2	900	9/2/1997	6.2	850	5/7/2003	3.7	850	10/18/2011	3.6	152
9/19/1996	6.0	900	10/5/1997	6.3	850	6/10/2003	4.3	1150	6/19/2013	6.1	273
9/23/1996	6.1	900	10/12/1997	6.2	900	7/12/2003	4.5	950	8/15/2013		
9/26/1996	6.4	850	10/19/1997	5.8	950	8/22/2003	4.3	900			
9/30/1996	6.4	800	10/26/1997	6.1	950	9/10/2003	4.4	900			
10/7/1996	6.8	850	11/2/1997	5.9	800	10/17/2003	4.5	950			



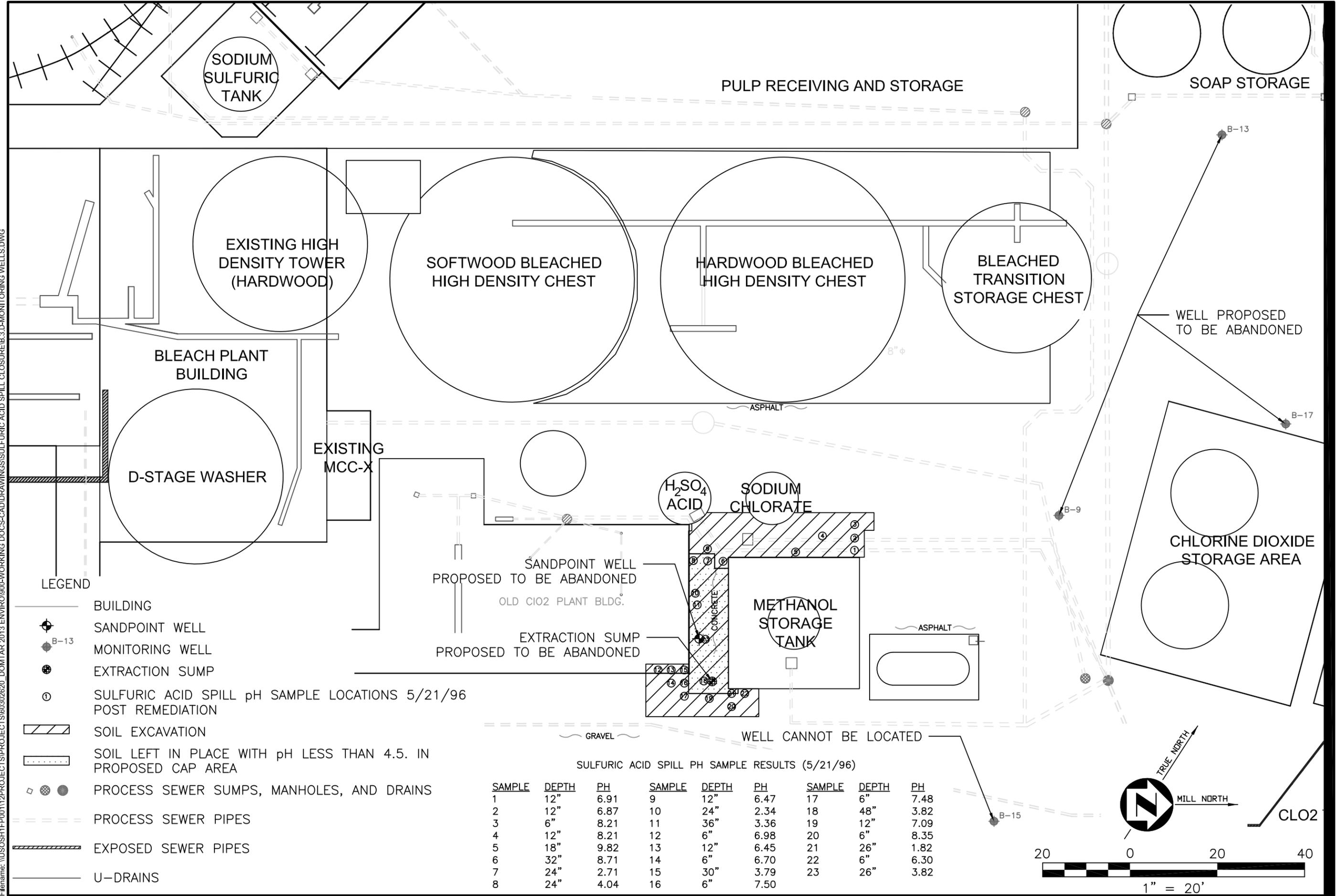
SULFURIC ACID SPILL PH SAMPLE RESULTS (5/21/96)

SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH
1	12"	6.91	9	12"	6.47	17	6"	7.48
2	12"	6.87	10	24"	2.34	18	48"	3.82
3	6"	8.21	11	36"	3.36	19	12"	7.09
4	12"	8.21	12	6"	6.98	20	6"	8.35
5	18"	9.82	13	12"	6.45	21	26"	1.82
6	32"	8.71	14	6"	6.70	22	6"	6.30
7	24"	2.71	15	30"	3.79	23	26"	3.82
8	24"	4.04	16	6"	7.50			

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 Project Management Initials: Designer: Checked: Approved: ANSI B 11" x 17"



Last saved by: KYLES(2013-10-02) Last Plotted: 2013-10-02  
 Filename: \USOSH\FP00112\PROJECTS\PROJECTS\60302620\_DOMITAR 2013 ENVIRO900-WORKING DOCS-CADD\DRAWINGS\SULFURIC ACID SPILL CLOSURE\B.3.D-MONITORING WELLS.DWG  
 Project Management Initials: Designer: ---  
 Checked: --- Approved: --- ANSI B 11" x 17"

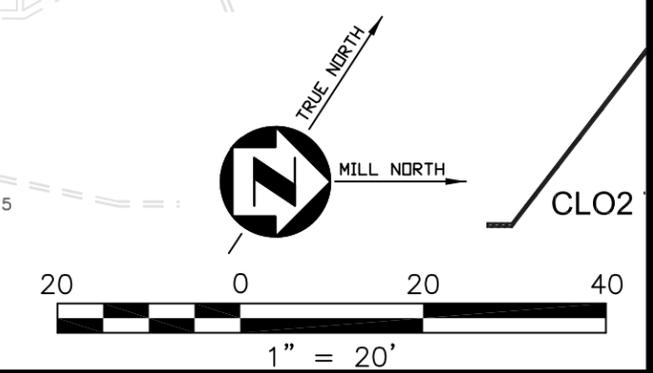


**LEGEND**

- BUILDING
- ⊕ SANDPOINT WELL
- B-13 MONITORING WELL
- ⊕ EXTRACTION SUMP
- ① SULFURIC ACID SPILL pH SAMPLE LOCATIONS 5/21/96 POST REMEDIATION
- ▨ SOIL EXCAVATION
- ⋯ SOIL LEFT IN PLACE WITH pH LESS THAN 4.5. IN PROPOSED CAP AREA
- ⊠ ● PROCESS SEWER SUMPS, MANHOLES, AND DRAINS
- PROCESS SEWER PIPES
- ▨ EXPOSED SEWER PIPES
- U-DRAINS

**SULFURIC ACID SPILL PH SAMPLE RESULTS (5/21/96)**

SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH
1	12"	6.91	9	12"	6.47	17	6"	7.48
2	12"	6.87	10	24"	2.34	18	48"	3.82
3	6"	8.21	11	36"	3.36	19	12"	7.09
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7	24"	2.71	15	30"	3.79	23	26"	3.82
8	24"	4.04	16	6"	7.50			



IT IS UNLIKELY THAT VOLATILE ORGANIC VAPORS (VOCs) WERE GENERATED FROM THE SOURCE MATERIAL, SULFURIC ACID. THEREFORE, VAPOR COLLECTION WAS NOT CONDUCTED AND THERE IS NO INFORMATION TO SHOW ON THE VAPOR INTRUSION MAP.

THE SPILL WAS ISOLATED AND THERE WAS NO OTHER MEDIA OF CONCERN. THEREFORE  
OTHER MEDIA WAS NOT COLLECTED AND ANALYZED. THERE IS NO INFORMATION TO SHOW  
ON THE OTHER MEDIA OF CONCERN MAP.

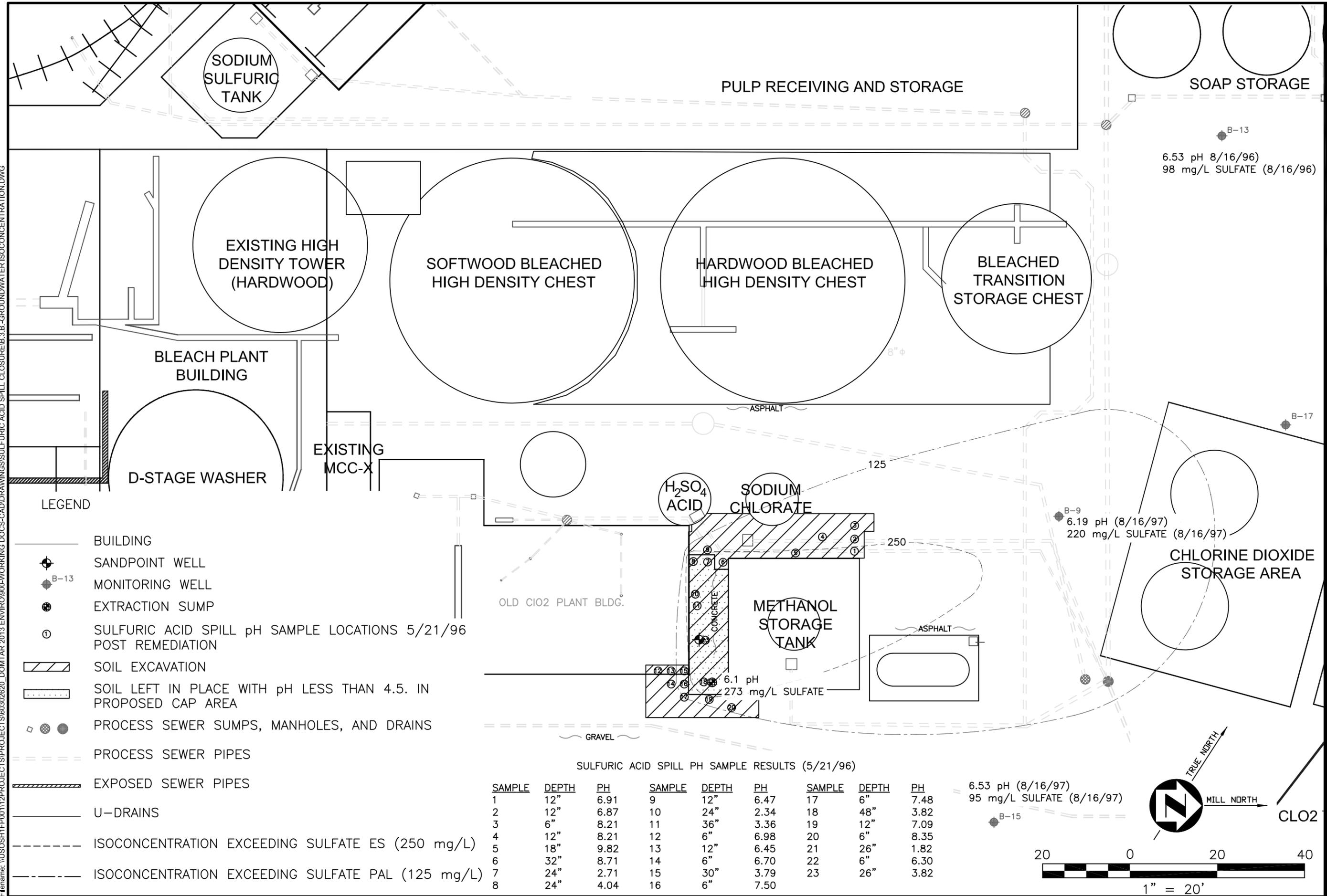
## Documentation of Remedial Action (Attachment C)

# DISCLAIMER

Documents contained in Attachment C of the Case Closure – GIS Registry (Form 4400-202) are not included in the electronic version (GIS Registry Packet) available on RR Sites Map to limit file size.

For information on how to obtain a copy or to review the file, please contact the Remediation & Redevelopment (RR) Environmental Program Associate (EPA) at <http://dnr.wi.gov/topic/Brownfields/Contact.html>



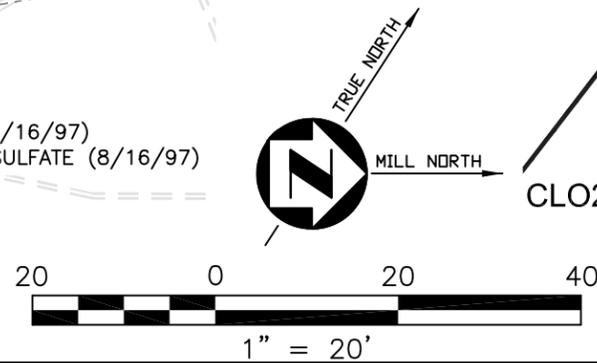


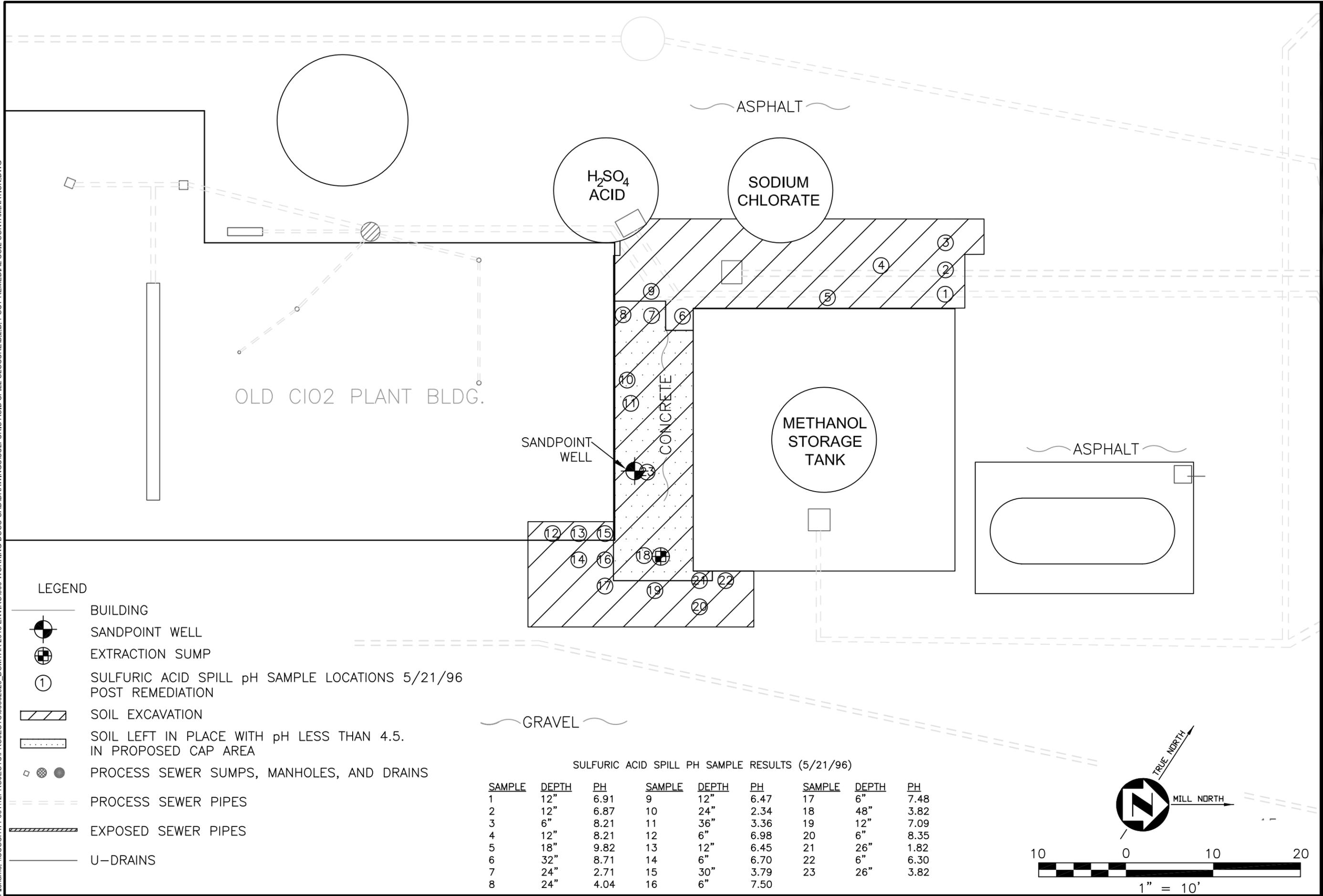
LEGEND

- BUILDING
- ⊕ SANDPOINT WELL
- B-13 MONITORING WELL
- ⊕ EXTRACTION SUMP
- ⊙ SULFURIC ACID SPILL pH SAMPLE LOCATIONS 5/21/96 POST REMEDIATION
- ▨ SOIL EXCAVATION
- ⋯ SOIL LEFT IN PLACE WITH pH LESS THAN 4.5. IN PROPOSED CAP AREA
- ⊕ ● PROCESS SEWER SUMPS, MANHOLES, AND DRAINS
- PROCESS SEWER PIPES
- EXPOSED SEWER PIPES
- U-DRAINS
- ISOCONCENTRATION EXCEEDING SULFATE ES (250 mg/L)
- ISOCONCENTRATION EXCEEDING SULFATE PAL (125 mg/L)

SULFURIC ACID SPILL PH SAMPLE RESULTS (5/21/96)

SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH
1	12"	6.91	9	12"	6.47	17	6"	7.48
2	12"	6.87	10	24"	2.34	18	48"	3.82
3	6"	8.21	11	36"	3.36	19	12"	7.09
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7	24"	2.71	15	30"	3.79	23	26"	3.82
8	24"	4.04	16	6"	7.50			



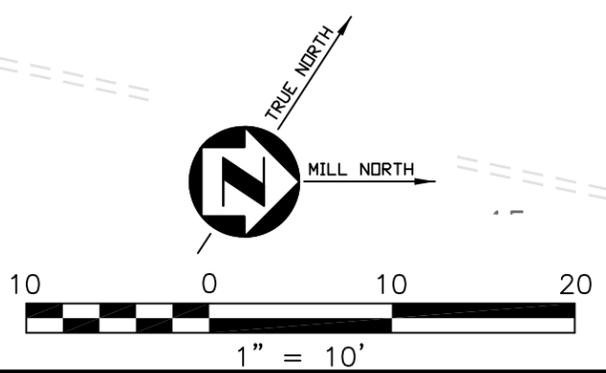


**LEGEND**

- BUILDING
- SANDPOINT WELL
- EXTRACTION SUMP
- SULFURIC ACID SPILL pH SAMPLE LOCATIONS 5/21/96 POST REMEDIATION
- SOIL EXCAVATION
- SOIL LEFT IN PLACE WITH pH LESS THAN 4.5. IN PROPOSED CAP AREA
- PROCESS SEWER SUMPS, MANHOLES, AND DRAINS
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- EXPOSED SEWER PIPES
- U-DRAINS

SULFURIC ACID SPILL PH SAMPLE RESULTS (5/21/96)

SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH	SAMPLE	DEPTH	PH
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3	6"	8.21	11	36"	3.36	19	12"	7.09
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5	18"	9.82	13	12"	6.45	21	26"	1.82
6	32"	8.71	14	6"	6.70	22	6"	6.30
7	24"	2.71	15	30"	3.79	23	26"	3.82
8	24"	4.04	16	6"	7.50			



## **D.2 – Brief Descriptions**

### BARRIER MAINTENANCE PLAN

10/15/2013

Property Located at:

301 Point Basse Avenue, Nekoosa, Wisconsin 54457

WDNR BRRTS/Activity # 02-72-195035

LEGAL DESCRIPTION: CITY OF NEKOOSA S10 T21 R5E PRT GO LOTS 5, 6 & SE NW LYG ELY OF PT BASSE AVE & S OF SLN OF ALLEY 'BLKS 3, 4, 5 & 6 PLAT OF NEK' & SW OF HWY; E 6' OF PT BASSE, AND LOTS 1 THRU 8, BLK 3, LOTS 1 THRU 8, BLK 4, LOTS 1 THRU 8, BLK 5, LOTS 4 THRU 8, BLK 6 & VAC STREETS & ALLEY, EXC THAT PRT LYG SLY & ELY OF FERC LINE

#### Introduction

This document is the Maintenance Plan for a barrier at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing barrier occupying the area over the contaminated groundwater plume or soil on-site.

More site-specific information about this property may be found in:

- The case file in the DNR West Central regional office
- BRRTS on the Web (DNR's internet based data base of contaminated sites):  
[dnr.wi.gov/botw/SetUpBasicSearchForm.do](http://dnr.wi.gov/botw/SetUpBasicSearchForm.do)
- GIS Registry PDF file for further information on the nature and extent of contamination:  
[dnrmaps.wisconsin.gov/imf/imf.jsp?site=brts2](http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=brts2); and
- The DNR project manager for Wood County.

#### Description of Contamination

Soil contaminated by sulfuric acid is located at a depth of 4 inches to 4 feet at the Domtar Nekoosa Mill in Nekoosa, Wisconsin. Groundwater contaminated by sulfate is located at a depth of approximately 6 to 8 feet below ground near the spill site. The extent of the soil and groundwater contamination is shown on the attached Figures B.3.b and B.2.b.

The Barrier consists of asphalt pavement, concrete slab, and curbing system to direct surface water to the Mill's waste water treatment facility. The barrier is located over the spill area on the property as shown on the attached Figures B.3.b and B.2.b.

#### Cover Slab Barrier Purpose

The barrier over the contaminated groundwater plume and soil serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. This barrier also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

### **D.3 – Description of Maintenance Action(s)**

#### Annual Inspection

The cap overlying the contaminated groundwater plume and soil, as depicted in Figures B.3.b and B.2.b, will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause infiltration into, or exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed and where infiltration from the surface will not be effectively minimized will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit B, Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources (“WDNR”) representatives upon their request.

#### Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (“PPE”). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the cap overlying the contaminated groundwater plume and soil is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

The property owner, in order to maintain the integrity of the cap, will maintain a copy of this Maintenance Plan on-site and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

#### Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover or Cap

The following activities are prohibited on any portion of the property where pavement or other barrier is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

#### Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of WDNR.

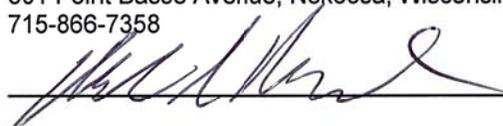


**D.5 - Contact Information**

October, 2013

Site Owner and Operator: Mark Bessette, Domtar  
301 Point Basse Avenue, Nekoosa, Wisconsin 54457  
715-866-7358

Signature:

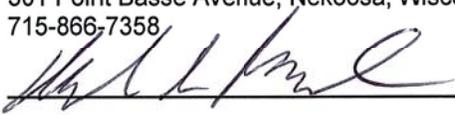


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(DNR may request signature of affected property owners, on a case-by-case basis)

Property Owner: Mark Bessette, Domtar  
301 Point Basse Avenue, Nekoosa, Wisconsin 54457  
715-866-7358

Signature:



---

Consultant: Andrew Mott  
558 North Main Street, Oshkosh, Wisconsin 54901  
920-236-6713

WDNR: Tom Hvizdak  
473 Griffith Avenue, Wisconsin Rapids, Wisconsin 54494  
715-421-7850

**D.6. Photos**

**PHOTOGRAPHIC LOG**

<b>Client Name:</b> Domtar		<b>Site Location:</b> Sulfuric Acid Spill		<b>Project No.:</b> 60302620	
<b>Photo No.</b> 1	<b>Date:</b> 6/13/2013				
<b>Direction Photo Taken:</b>  Southwest					
<b>Description:</b>  Sulfuric Acid spill site located in the top left hand corner of the photo. Process sewer lines running north-south making additional investigation difficult. Area is completely paved with asphalt or concrete. Monitoring well B-9 is located in the bottom left hand corner of the photo.					

<b>Photo No.</b> 2	<b>Date:</b>				
<b>Direction Photo Taken:</b>  East					
<b>Description:</b>  Sulfuric Acid, Methanol and hydrogen peroxide unloading area. Curb and concrete slab constructed in early 2000s.					

**D.6. Photos**

<b>PHOTOGRAPHIC LOG</b>			
<b>Client Name:</b> Domtar		<b>Site Location:</b> Sulfuric Acid Spill	<b>Project No.:</b> 60302620
<b>Photo No.</b> 3	<b>Date:</b> 6/13/2013		
<b>Direction Photo Taken:</b> East			
<b>Description:</b> Area of sulfuric acid spill area with residual low pH impacted soil. The entire area is capped with concrete and curbed.			

<b>Photo No.</b> 4	<b>Date:</b> 6/13/2013		
<b>Direction Photo Taken:</b> Northwest			
<b>Description:</b> Sulfuric acid sump area with concrete pavement and containment curbs.			

**D.6. Photos**

<b>PHOTOGRAPHIC LOG</b>			
<b>Client Name:</b> Domtar		<b>Site Location:</b> Sulfuric Acid Spill	<b>Project No.:</b> 60302620
<b>Photo No.</b> 5	<b>Date:</b> 6/13/2013		
<b>Direction Photo Taken:</b>  Northeast			
<b>Description:</b>  Looking northeast with Wisconsin River on immediate right and sump area to the left. Process lines run directly under gravel access road.			

**Attachment E – Monitoring Well Information**

Not Applicable. All monitoring wells required as part of this response action will be properly abandoned upon the DNR granting conditional closure to the site.

**Attachment F – Notifications to Owners of Impacted Properties**

Not Applicable. Domtar owns the impacted subject property.

SPECIAL WARRANTY DEED

883553

REGISTER OF DEEDS  
WOOD COUNTY  
RECORDED ON

08-07-2001 4:29 PM

RENE' L KRAUSE  
REGISTER OF DEEDS

*Rene' L. Krause Sp*

REC. FEE 96.00  
TRAN. FEE: 2588.10  
PAGES: 44

Add \$ 110,909.70 WI DOR  
TRANSFER FEE  
7-25-02

\$ 2,588.10 BWA  
TRANSFER FEE

This instrument to be returned to:

Boles-Wallner Abstract & Title, Inc.  
P.O. Box 575  
Wisconsin Rapids, WI 54495  
Parcel ID Nos. *9600 P*

THIS INDENTURE, made this 7<sup>th</sup> day of AUGUST, 2001 by and between NEKOOSA PAPERS INC., a Wisconsin corporation ("Grantor"), and DOMTAR A.W. CORP., a Delaware corporation, having an address at 395 de Maisonneuve Blvd. West, Montreal, Quebec, Canada H3A 1L6, ("Grantee") ("Grantor" and "Grantee" to include their respective successors, legal representatives, heirs and assigns where the context requires or permits);

WITNESSETH, That:

Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00), and other good and valuable consideration in hand paid at and before the sealing and delivery of these presents, the receipt and sufficiency whereof are hereby acknowledged, has granted, bargained, sold, aliened, conveyed, and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto Grantee, all that tract or parcel of land described in Exhibit A, attached hereto and by this reference made a part hereof (hereinafter the "Land").

TOGETHER WITH all rights, members, easements, and appurtenances appertaining to the Land, together with all right, title, and interest of Grantor in and to any and all alleys, streets, and rights-of-way adjacent to or abutting the Land (the Land, together with such rights and appurtenances and all buildings and improvements thereon, hereinafter the "Property").

That part of Government Lot 5 lying Westerly of railroad right of way and Northerly of 9<sup>th</sup> Street in Section 3, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.  
(Tax Key No. 30-00020)

Parcel 146:

That part of Government Lot 5 lying Westerly of railroad right of way and Southerly of 9<sup>th</sup> Street in Section 3, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.  
(Tax Key No. 30-00021)

Parcel 147:

That part of Government Lot 5 lying East of railroad right of way, West of Patton Avenue and South of the South line of the alley in Blocks 32 and 33 of Nekoosa Paper Co.'s Addition, in Section 3, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.  
(Tax Key No. 30-00022)

Parcel 148:

Outlots 1-A, 2-A and 3-A of Wood County Certified Survey Map No. 2965, as recorded in Volume 10 of Survey Maps, page 265, being part of the NE ¼ of the SE ¼ of Section 9, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.  
(Tax Key No. 30-00103A)

Parcel 150: - MILL LOT

That part of Government Lots 6 and 7 lying Easterly of Chicago & Northwestern Railroad right of way, Northerly of the map of Nekoosa and Westerly of Nekoosa Paper Co.'s Addition to the Village (now City) of Nekoosa in Section 10, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin, EXCEPT Wood County Certified Survey Map No. 2145, AND FURTHER EXCEPTING that part of the railroad right of way 100 feet in width between the North line of Market Street and the North line of 1<sup>st</sup> Street and Parcel B of Wood County Certified Survey Map No. 2145.  
(Tax Key No. 30-00148)

Parcel 151: - MILL LOT

That part of Government Lots 5 and 6 and SE ¼ of the NW ¼ lying Easterly of Point Basse Avenue and South of the South line of Alley of Blocks 3, 4, 5 and 6 of Nekoosa and Southwest of highway as vacated in Volume 359 of Mis. Records, page 611, located in Section 10, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin;  
AND INCLUDING the East 6 feet of Point Basse Avenue;  
AND Lots 1 thru 8, Block 3;  
Lots 1 thru 8, Block 4;  
Lots 1 thru 8, Block 5;  
Lots 4 thru 8, Block 6;  
AND vacated streets between Blocks 3 and 4, Blocks 4 and 5, and Blocks 5 and 6, and vacated alley on the South side;  
ALL of Nekoosa, City of Nekoosa Wood County, Wisconsin (Tax Key No. 30-00150);

EXCEPTING THEREFROM the following described property:

**AREA SOUTH AND EAST OF FERC LINE IN VICINITY OF NEKOOSA MILL**

All that part of Government Lot 5, Section 10, T21N, R5E, City of Nekoosa, Wood County, Wisconsin, lying South and East of the following described line, said line being defined as the FERC line lying within said Government Lot 5, and being more particularly described as follows:

COMMENCING at the West Quarter corner of said Section 10, T21N, R5E;

THENCE S 00°24'27" E, along the west line said Section 10, 1321.36 feet to the southwest corner of Government Lot 5 of said Section 10;

THENCE N 89°17' 16" E, along the south line of said Government Lot 5, 1322.87 feet to a point on the FERC line and the POINT OF BEGINNING;

THENCE with said FERC line the following 18 courses:

1. N 02°52' 41" E, 82.55 feet;
2. N 11°13' 00" E, 157.37 feet;
3. N 31°13' 10" E, 349.17 feet to a building wall;
4. N 55°30' 56" E, 232.05 feet to a building corner;
5. N 58°36' 07" E, along a building wall, 424.35 feet to a building corner;
6. S 30°35' 14" E, along a building wall, 22.28 feet to a building corner;
7. N 57°11' 34" E, along a building wall, 14.71 feet to a building corner;
8. S 31°44' 09" E, along a building wall, 142.91 feet to a building corner;
9. N 57°25' 30" E, 97.67 feet;
10. N 32° 34' 30" W, 139.64 feet;
11. N 57°25' 30" E, 13.92 feet;
12. N 31°23' 29" W, 39.78 feet to a building wall;
13. N 58°36' 31" E, along a building wall, 323.64 feet to a building corner;
14. S 86°27' 18" E, 70.02 feet to a building corner;
15. N 61°57' 37" E, 166.47 feet;
16. N 76°14' 42" E, 150.41 feet;
17. N 82°00' 39" E, 597.51 feet;
18. N 55°28' 47" E to the north line of said Government Lot 5.

Parcel 153:

Lot 2 of Wood County Certified Survey Map No. 5307, as recorded in Volume 18 of Survey Maps, page 207, being part of the SW ¼ of the NW ¼ of Section 10, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.

(Tax Key No. 30-00163B)

Parcel 155:

Lot A and Lot 14 in Block 1 of Nekoosa, City of Nekoosa, Wood County, Wisconsin.

(Tax Key No. 30-00194)

Parcel 156:

Lot 9 in Block 2 of Nekoosa, City of Nekoosa, Wood County, Wisconsin.

(Tax Key No. 30-00217)

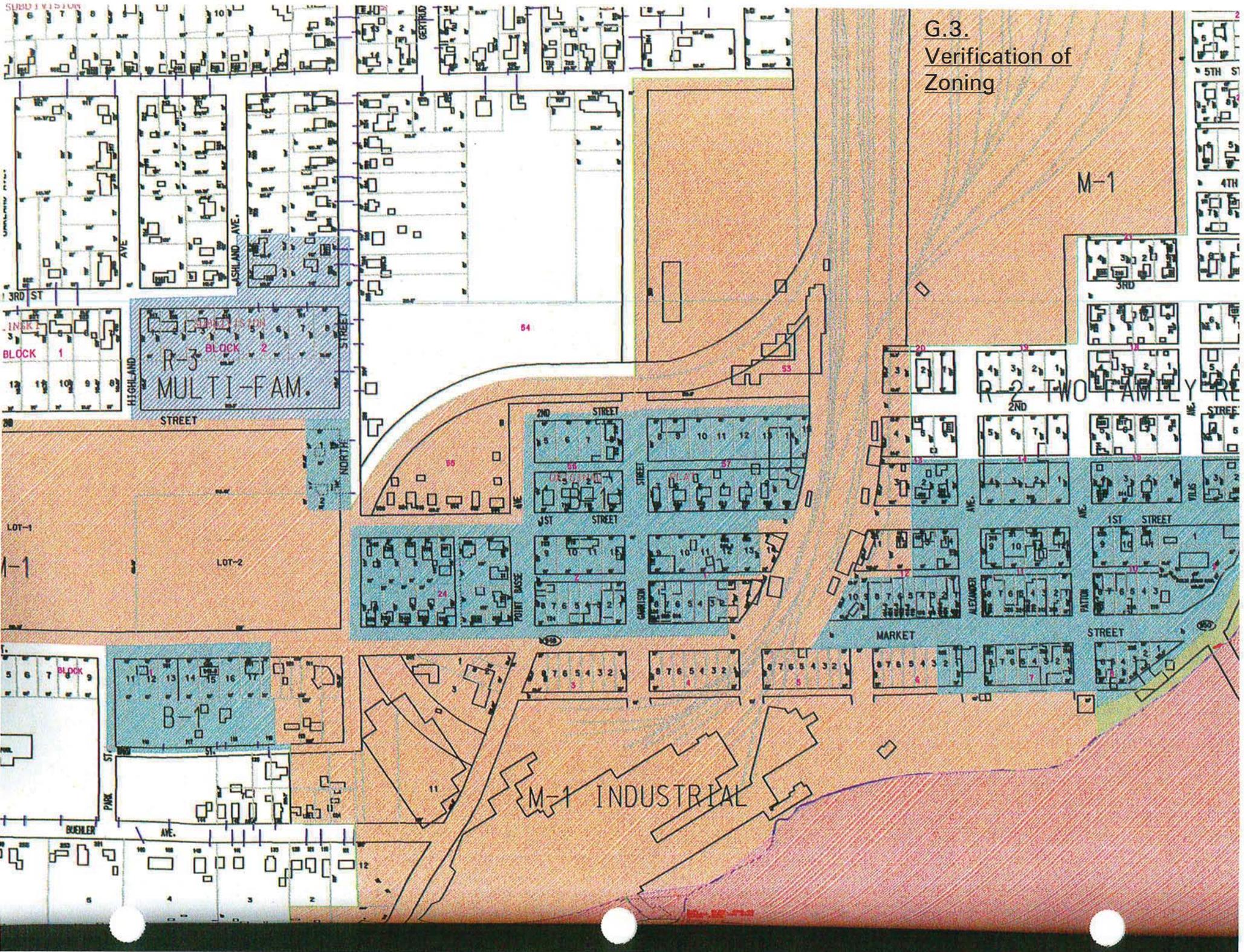
Parcel 157:

Lot 11 in Block 12 of Nekoosa, City of Nekoosa, Wood County, Wisconsin.

(Tax Key No. 30-00303)

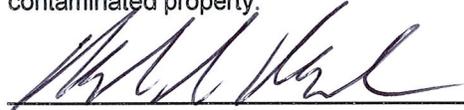


G.3.  
Verification of  
Zoning



**G.4. – Signed Statement**

I, Mark Bessette, believe that the attached legal descriptions accurately describe the correct contaminated property.

  
\_\_\_\_\_  
Signature

10/24/13  
\_\_\_\_\_  
Date